

Storm Data and Unusual Weather Phenomena - January 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z014) MARSHALL				
	01/07/11 09:00 EST		0	Lake-Effect Snow
	01/09/11 02:00 EST		0	
Several intense lake effect snow bands set up across far north-central and northwest Indiana on January 7th and 8th. Snowfall totals of 1 to 3 feet were common, with greater than 6 inch per hour snowfall rates observed within the more intense bands.				
(IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY				
	01/11/11 04:00 EST		0	Winter Weather
	01/12/11 10:00 EST		0	
A widespread area of light to moderate snow pivoted through the area on January 11th, with snowfall reports generally ranging between 3 and 6 inches. This moderate snowfall event was associated with a low pressure system that tracked northeastward through the Ohio Valley into central Ohio.				
(IN-Z003) LA PORTE				
	01/11/11 20:00 EST		0	Lake-Effect Snow
	01/12/11 11:00 EST		0	
Increasing northerly flow behind a departing storm system set the stage for an intense lake effect snow band over LaPorte County late January 11th into the first half of January 12th. Snowfall amounts of 6-12 inches were common across much of the county.				
MICHIGAN, Extreme Southwest				
(MI-Z077) BERRIEN, (MI-Z078) CASS				
	01/07/11 09:00 EST		0	Lake-Effect Snow
	01/09/11 01:00 EST		0	
Several intense lake effect snow bands set up across Berrien and western Cass counties on January 7th and 8th. The heaviest snows, with snowfall rates in excess of 4 inches per hour, were experienced late January 7th into the morning hours of January 8th. Snowfall totals between 1 and 2 feet were common.				
(MI-Z077) BERRIEN				
	01/12/11 05:00 EST		0	Lake-Effect Snow
	01/12/11 21:00 EST		0	
Increasing northwesterly flow behind a departing storm system set the stage for an intense lake effect snow band over Berrien County on January 12th. Snowfall amounts ranged from near 8 inches in far southwest Berrien County to 3-6 inches elsewhere.				
OHIO, Northwest				
(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN				
	01/11/11 09:00 EST		0	Winter Weather
	01/12/11 23:00 EST		0	
A widespread area of light to moderate snow pivoted through the area on January 11th, with snowfall reports generally ranging between 3 and 6 inches. This moderate snowfall event was associated with a low pressure system that tracked northeastward through the Ohio Valley into central Ohio.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH				
	02/01/11 15:00 EST		0	Blizzard
	02/02/11 02:00 EST		0	
An intense low pressure system tracked from the Lower Mississippi River Valley northeast into northern Indiana late February 1st into February 2nd. A mixture of heavy snow and sleet developed out ahead of this system during the late afternoon and evening hours of February 1st, with many locations picking up between 6 and 14 inches of snow and sleet. This combined with wind gusts in excess of 40 mph created blizzard conditions across much of northern Indiana.				
(IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY				
	02/01/11 15:00 EST		0	Winter Storm
	02/02/11 11:00 EST		0	
An intense low pressure system tracked from the Lower Mississippi River Valley northeast into northern Indiana late February 1st into February 2nd. A mixture of sleet, snow, and freezing rain developed out ahead of this system during the late afternoon and evening hours of February 1st. Many locations received between 0.5" and 1.5" of sleet and several inches of snow. This combined with wind gusts in excess of 40 mph created reduced visibilities and hazardous driving conditions across portions of northern Indiana.				
(IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD				
	02/05/11 06:00 EST		0	Heavy Snow
	02/05/11 17:00 EST		0	
(IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z034) JAY				
	02/05/11 07:00 EST		0	Winter Weather
	02/05/11 17:00 EST		0	
A potent upper level disturbance lifted northeastward into the Ohio Valley on February 5th. Moderate to heavy snow accompanied this system, with amounts generally ranging between 3 and 7 inches across northern Indiana.				
(IN-Z016) KOSCIUSKO				
	02/10/11 01:00 EST	1	0	Cold/Wind Chill
	02/10/11 01:00 EST		0	
Direct Fatalities: F97OU				
Temperatures fell into the teens below zero during the overnight hours of February 10th. A 97 year old woman apparently fell on ice and sustained a head injury. Local officials determined that the cold weather was to blame for the woman's death.				
(IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z014) MARSHALL, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN				
	02/20/11 11:00 EST		0	Winter Weather
	02/21/11 19:00 EST		0	
(IN-Z007) STEUBEN				
	02/20/11 11:00 EST		0	Ice Storm
	02/21/11 19:00 EST		0	
Periods of freezing rain created hazardous driving conditions across northeast Indiana February 20th into the morning hours of February 21st as moisture lifted northward over a nearly stalled out frontal boundary. Ice accretions ranged from a glaze to 0.30" across the area. The freezing rain changed over to a period of heavy snow during the afternoon and early evening hours of February 21st.				
(IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON				

Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/24/11 23:00 EST		0	Winter Weather
	02/25/11 08:00 EST		0	

(IN-Z009) DE KALB, (IN-Z018) ALLEN, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY

02/25/11 01:00 EST	0	Heavy Snow
02/25/11 09:00 EST	0	

Moderate to heavy snow impacted much of northeast Indiana during the morning hours of February 25th as an area of low pressure tracked northeastward near the Ohio River. Snowfall amounts generally ranged between four and seven inches.

BLACKFORD COUNTY --- 2.5 W SHAMROCK LAKES [40.41, -85.48], 0.5 WSW HARTFORD CITY [40.45, -85.38], 2.6 ENE HARTFORD CITY [40.47, -85.33], 0.3 N MILLGROVE [40.40, -85.28], 3.5 SSW SHAMROCK LAKES [40.37, -85.45]

02/28/11 06:21 EST	0	Flood (due to Heavy Rain)
02/28/11 23:59 EST	0	Source: Law Enforcement

Law enforcement officials reported numerous road closures, including State Road 26 and County Road 200 East. River flooding resulted from the heavy rain and continued into the first part of March. However, only agricultural flooding was noted.

JAY COUNTY --- 2.3 WNW FIAT [40.56, -85.19], 1.0 ESE NEW CORYDON [40.57, -84.81], 2.9 E SALEM [40.32, -84.81], 3.8 SW REDKEY [40.32, -85.21]

02/28/11 06:21 EST	1.50M	Flood (due to Heavy Rain)
02/28/11 23:59 EST	0	Source: County Official

County officials and local newspapers reported widespread flooding from a combination of local creeks and rivers overflowing and ponding of water in slow drainage areas. Much of the city of Portland, as well as New Corydon suffered flooding damage. Water depths of several inches to over a foot were reported in businesses and homes. In addition, several roads were closed, including US 27 which passes through Portland. Flooding began to subside by later on the 28th, but rivers continued to respond to the heavy rainfall. No damage amounts were available at the time of entry.

ADAMS COUNTY --- 1.8 WNW PERRYVILLE [40.59, -85.08], 5.2 ESE CEYLON [40.59, -84.86], 4.8 NE DECATUR HI WAY ARPT [40.89, -84.82], 2.1 N MAGLEY [40.86, -85.05]

02/28/11 07:00 EST	0	Flood (due to Heavy Rain)
02/28/11 23:59 EST	0	Source: Law Enforcement

Law enforcement officials reported some road closures during the rain event. While damage was limited at this time to minor washout, the Wabash River rapidly rose during the day and into the first part of March.

GRANT COUNTY --- 1.2 NW STONECREST [40.54, -85.64], 0.7 NNW STONECREST [40.54, -85.62], 0.1 NW STONECREST [40.53, -85.62], 0.5 W STONECREST [40.53, -85.63], 1.3 NW STONECREST [40.54, -85.64]

02/28/11 08:00 EST	0	Flood (due to Heavy Rain)
02/28/11 23:59 EST	0	Source: Newspaper

Local newspapers reported extensive flooding occurred on the Mississinewa River, just east of Marion. The rain occurred on the 28th with the river quickly responding to the heavy rainfall. Some damage was reported during the late evening hours, with conditions worsening into March 1st.

Numerous showers and thunderstorms developed and moved across portions of Northern Indiana. One to three inches of rain fell across the area with localized higher amounts. This resulted in some roads becoming impassable due to flood waters. The event continued into March when a few rivers went over their banks.

MICHIGAN, Extreme Southwest

(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE

02/01/11 16:00 EST	0	Blizzard
02/02/11 03:00 EST	0	

An intense low pressure system tracked from the Lower Mississippi River Valley northeast into northern Indiana late February 1st into February 2nd. Heavy snow developed out ahead of this system during the late afternoon and evening hours of February 1st, with many locations picking up between 6 and 10 inches of snow. This combined with wind gusts in excess of 40 mph created blizzard conditions across much of southwest Lower Michigan.

(MI-Z078) CASS

02/20/11 11:00 EST	0	Winter Weather
02/21/11 04:00 EST	0	

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE				
	02/20/11 12:00 EST		0	Ice Storm
	02/21/11 05:00 EST		0	
Ice accumulations between 0.25" and 0.50" impacted portions of southern Michigan as a steady freezing rain fell north of a stalled out frontal boundary during the afternoon and evening hours of February 20th. The freezing rain finally tapered off during the early morning hours of February 21st, leaving power outages and icy roads in its wake.				
OHIO, Northwest				
(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY				
	02/01/11 16:00 EST		0	Blizzard
	02/02/11 01:00 EST		0	
An intense low pressure system tracked from the Lower Mississippi River Valley northeast into northern Indiana late February 1st into February 2nd. Heavy snow and sleet developed out ahead of this system during the late afternoon and evening hours of February 1st, with many locations picking up between 3 and 7 inches of snow and sleet. This combined with wind gusts in excess of 40 mph created blizzard conditions across much of northwest Ohio.				
(OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN				
	02/01/11 16:00 EST		0	Winter Storm
	02/02/11 11:00 EST		0	
An intense low pressure system tracked from the Lower Mississippi River Valley northeast into northern Indiana late February 1st into February 2nd. A mixture of sleet, snow, and freezing rain developed out ahead of this system during the late afternoon and evening hours of February 1st. Many locations received between 0.5" and 1.5" of sleet and several inches of snow. This combined with wind gusts in excess of 40 mph created reduced visibilities and hazardous driving conditions across portions of northwest Ohio.				
(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT				
	02/05/11 09:00 EST		0	Heavy Snow
	02/05/11 18:00 EST		0	
(OH-Z025) ALLEN				
	02/05/11 09:00 EST		0	Winter Weather
	02/05/11 18:00 EST		0	
A potent upper level disturbance lifted northeastward into the Ohio Valley on February 5th. Moderate to heavy snow accompanied this system, with amounts generally ranging between 4 and 7 inches across northwest Ohio.				
(OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN				
	02/20/11 11:00 EST		0	Winter Weather
	02/21/11 21:00 EST		0	
(OH-Z001) WILLIAMS, (OH-Z002) FULTON				
	02/20/11 12:00 EST		0	Ice Storm
	02/21/11 20:00 EST		0	
Periods of freezing rain created hazardous driving conditions across northwest Ohio February 20th into the morning hours of February 21st as moisture lifted northward over a nearly stalled out frontal boundary. Ice accumulations generally ranged between a glaze and 0.30". The freezing rain changed over to a period of heavy snow during the afternoon and early evening hours of February 21st.				
(OH-Z001) WILLIAMS				
	02/25/11 01:00 EST		0	Winter Weather
	02/25/11 09:00 EST		0	
(OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN				

Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/25/11 01:00 EST		0	Heavy Snow
	02/25/11 09:00 EST		0	

Moderate to heavy snow impacted much of northwest Ohio during the morning hours of February 25th as an area of low pressure tracked northeastward near the Ohio River. Snowfall amounts generally ranged between four and seven inches.

Storm Data and Unusual Weather Phenomena - March 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
GRANT COUNTY --- 1.2 NW STONECREST [40.54, -85.64], 0.7 NNW STONECREST [40.54, -85.62], 0.1 NW STONECREST [40.53, -85.62], 0.5 W STONECREST [40.53, -85.63], 1.3 NW STONECREST [40.54, -85.64]				
	03/01/11 00:00 EST		1M	Flood (due to Heavy Rain)
	03/01/11 20:00 EST		0	Source: Newspaper

Flooding along the Mississinewa River continued into the first day of March. High water from the river spilled over into eastern portions of Marion as well as into the Stonecrest Mobile Home Community, where residents woke to flooded residences and roads. Sufficient water covered the entrances to the community to stop residents from entering and exiting the area, as well as causing school buses to divert away from the area. While no exact damage figures were provided, damage likely exceeded 1 million dollars from a combination of structural and roadway damage.

Heavy rains that occurred February 27th and 28th continued to cause flooding problems, mainly on local rivers, creeks and streams. While most concerns were related to agricultural lands, residents in Grant county continued to see flooding concerns beyond these areas.

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
KOSCIUSKO COUNTY --- 1.1 NE LEESBURG [41.34, -85.83]				
	04/04/11 04:10 EST		0	Thunderstorm Wind (EG 65 kt)
	04/04/11 04:11 EST		0	Source: NWS Employee
An off duty NWS employee found a large pine tree uprooted at a residence northeast of Leesburg.				
KOSCIUSKO COUNTY --- 0.7 NNW BARBEE [41.31, -85.72]				
	04/04/11 04:14 EST		0	Thunderstorm Wind (MG 53 kt)
	04/04/11 04:15 EST		0	Source: NWS Employee
A 61 mph wind gust was recorded at a NWS employee's home during the storm.				
KOSCIUSKO COUNTY --- 0.8 ENE WARSAW [41.23, -85.81]				
	04/04/11 04:15 EST		6K	Thunderstorm Wind (EG 50 kt)
	04/04/11 04:16 EST		0	Source: NWS Employee
An off duty NWS employee found a 12 inch diameter tree had fallen on a mobile home on Wexford Place in Warsaw. The report initially came in from the Warsaw Times Union newspaper. The west side of the structure suffered damage as branches penetrated the roof. Damage is estimated around \$6,000.				
WHITLEY COUNTY --- 0.1 NE CHURUBUSCO [41.23, -85.32]				
	04/04/11 04:26 EST		0	Thunderstorm Wind (EG 55 kt)
	04/04/11 04:27 EST		0	Source: Emergency Manager
Emergency management officials reported a power line blown down at 230 Rail Street and a tree down across the road near the intersection of Main and Pleasant Street, around a tenth of a mile southeast of the power line down report.				
GRANT COUNTY --- 0.9 SE SHADY HILLS [40.56, -85.66]				
	04/04/11 04:43 EST		0	Thunderstorm Wind (MG 53 kt)
	04/04/11 04:44 EST		0	Source: Trained Spotter
A trained spotter in Marion reported a 61 mph wind gust.				
A fast moving line of thunderstorms entered western Indiana ahead of a cold front and began to intensify. While widespread severe weather did not occur, pockets of locally damaging winds did result in some sporadic tree damage.				
STARKE COUNTY --- 1.5 NNE OBER [41.29, -86.52]				
	04/10/11 23:45 CST		0	Thunderstorm Wind (EG 55 kt)
	04/10/11 23:46 CST		0	Source: Law Enforcement
Law enforcement officials reported a large tree down on State Route 23 and County Road East 150 South.				
MARSHALL COUNTY --- 0.9 SE PLYMOUTH [41.34, -86.31]				
	04/11/11 01:05 EST		0	Thunderstorm Wind (EG 55 kt)
	04/11/11 01:06 EST		0	Source: Law Enforcement
Law enforcement officials reported a tree down in the 1600 block of 9th Street.				
STEUBEN COUNTY --- 0.9 NNE ANGOLA [41.64, -85.00]				
	04/11/11 02:30 EST		55K	Lightning
	04/11/11 02:31 EST		0	Source: Newspaper
A local newspaper reported a residence in the 300 block of East Stocker Street, in Angola, was struck by lightning, causing an attic fire. The residents were home at the time of the lightning strike and escaped without injuries. An estimated \$55,000 in damage was caused to the attic area.				
A cold front moved through the area during the early morning hours of April 11th. Scattered thunderstorms produced isolated wind damage.				
PULASKI COUNTY --- 0.9 SW BEARDSTOWN [41.12, -86.63]				
	04/19/11 20:20 CST		0	Hail (0.75 in)
	04/19/11 20:21 CST		0	Source: Trained Spotter

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STARKE COUNTY --- 1.5 SSE STARKE CO ARPT [41.26, -86.62]				
	04/19/11 20:20 CST		0	Thunderstorm Wind (EG 55 kt)
	04/19/11 20:21 CST		0	Source: Law Enforcement
Law enforcement officials reported a tree down near the intersection of County Roads 400 South and 300 East. An additional tree was reported down 3 mile south of this location, near the intersection of U.S.-35 and State Route 10.				
WHITE COUNTY --- 0.5 W MONTICELLO [40.75, -86.76]				
	04/19/11 20:58 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 20:59 EST		0	Source: Law Enforcement
Law enforcement officials reported two trees down as well as a power pole.				
CASS COUNTY --- 2.1 SSE ROYAL CENTER [40.84, -86.49]				
	04/19/11 21:05 EST		10K	Thunderstorm Wind (EG 60 kt)
	04/19/11 21:06 EST		0	Source: Emergency Manager
Emergency management officials reported a pole barn was destroyed by strong winds.				
CASS COUNTY --- 1.7 NE KENNETH [40.77, -86.45]				
	04/19/11 21:15 EST		0	Thunderstorm Wind (EG 60 kt)
	04/19/11 21:16 EST		0	Source: Public
Large trees were snapped in half or uprooted.				
FULTON COUNTY --- GRASS CREEK [40.95, -86.40]				
	04/19/11 21:15 EST		0	Thunderstorm Wind (EG 55 kt)
	04/19/11 21:16 EST		0	Source: Emergency Manager
Emergency management officials reported trees down as well as minor barn damage in Grass Creek.				
ALLEN COUNTY --- 0.7 SW BROOKSIDE ESTATES [41.14, -85.09]				
	04/19/11 21:16 EST		25K	Thunderstorm Wind (EG 56 kt)
	04/19/11 21:17 EST		0	Source: Law Enforcement
Law enforcement officials reported the awning at a strip mall, located in the 6600 block of St. Joe Road, was ripped off. Businesses affected included Bikes -and- Boards, Mamma Mia's Pizza and New Republic Tattoo.				
MIAMI COUNTY --- 0.8 ESE (GUS)GRISSOM AFB PER [40.65, -86.14]				
	04/19/11 21:18 EST		0	Thunderstorm Wind (EG 55 kt)
	04/19/11 21:19 EST		0	Source: Law Enforcement
Law enforcement officials reported approximately 20 vehicles at the Miami County Correctional Facility having windows blown out. Several vehicles at residences around the facility suffered similar damage.				
CASS COUNTY --- 1.1 ESE TWELVE MILE [40.87, -86.20]				
	04/19/11 21:20 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 21:21 EST		0	Source: Emergency Manager
An outdoor antenna tower was bent over at roof level at a residence on County Road 700 North. In addition, a tree was snapped next to the house, the roof of a garage was damaged and the corner of the garage shifted off its foundation. Winds are estimated to range from 65 to 75 mph.				
MIAMI COUNTY --- 1.2 SSW MEXICO [40.80, -86.13]				
	04/19/11 21:20 EST		0	Thunderstorm Wind (EG 55 kt)
	04/19/11 21:21 EST		0	Source: Law Enforcement
Law enforcement officials reported a large tree down across the road at County Road 300 North, just west of U.S. 31.				
CASS COUNTY --- 1.1 ESE TWELVE MILE [40.87, -86.20]				
	04/19/11 21:22 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 21:23 EST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A NWS survey team was sent to investigate damage from a small, older barn. Debris was found up to one eighth of a mile from the structure with a small piece of debris being wrapped around a power pole. While the possibility exists that a brief circulation was present, this feature would have been associated with the gust front and not considered a tornado. Winds were estimated at between 65 and 75 mph.				
FULTON COUNTY --- 0.7 N WAGONER [41.03, -86.15]				
	04/19/11 21:24 EST		0	Thunderstorm Wind (EG 60 kt)
	04/19/11 21:25 EST		0	Source: Law Enforcement
Law enforcement officials reported a barn down near the intersection of County Roads 150 South and 500 East. Trees, tree limbs and power lines were also reported down across the county.				
MIAMI COUNTY --- 2.6 W STOCKDALE [40.92, -86.00]				
	04/19/11 21:28 EST		0	Thunderstorm Wind (EG 50 kt)
	04/19/11 21:29 EST		0	Source: Emergency Manager
Emergency management officials reported a tree being blown down across State Route 16.				
WABASH COUNTY --- 0.7 S ROANN [40.91, -85.92]				
	04/19/11 21:30 EST		0	Thunderstorm Wind (EG 60 kt)
	04/19/11 21:31 EST		0	Source: Emergency Manager
Emergency management officials reported several empty grain bins blown over.				
WABASH COUNTY --- 0.5 ENE SPEICHERVILLE [40.85, -85.79]				
	04/19/11 21:35 EST		0	Thunderstorm Wind (EG 55 kt)
	04/19/11 21:36 EST		0	Source: Emergency Manager
Emergency management officials reported a barn being blown down in the 1900 block of North State Route 13.				
WABASH COUNTY --- 0.5 E SPEICHERVILLE [40.85, -85.79]				
	04/19/11 21:40 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 21:41 EST		0	Source: Law Enforcement
Law enforcement officials reported a barn being blown down and some of the debris thrown into an adjacent residence.				
GRANT COUNTY --- 2.8 SE HACKLEMAN [40.39, -85.71], 1.6 W FAIRMOUNT [40.42, -85.68]				
	04/19/11 21:41 EST		0.10M	Tornado (EF1, L: 2.53 mi , W: 150 yd)
	04/19/11 21:44 EST		0	Source: NWS Storm Survey
A survey of damage in Grant County indicated that a circulation touched down roughly two miles southwest of Fairmount. The circulation touched down at a residence in the 10,000 block of County Road South 200 West. The back side of the roof of the residence was ripped off, along with some siding stripped and windows broken. Debris from the property was carried into the adjacent field. The tornado continued northeast where other residences as well as trees suffered varying degrees of damage. The tornado lifted near the intersection of State Routes 26 and 9. Damage found was consistent with winds between 100 and 110 mph.				
GRANT COUNTY --- 2.8 NE FOWLERTON [40.45, -85.54], 1.2 NW UPLAND [40.48, -85.50]				
	04/19/11 21:48 EST		0	Tornado (EF1, L: 2.90 mi , W: 50 yd)
	04/19/11 21:51 EST		0	Source: NWS Storm Survey
A survey of damage indicated a second circulation touched down three miles southwest of Upland and lifted just to the west northwest of Upland. Minor home damage occurred as well as several hardwood trees being snapped. Winds are consistent with speeds of 90 to 95 mph.				
WHITLEY COUNTY --- 4.0 NNE SOUTH WHITLEY [41.13, -85.58]				
	04/19/11 21:50 EST		0	Thunderstorm Wind (EG 60 kt)
	04/19/11 21:51 EST		0	Source: Public
The public reported the roof of a milk house was blown off and a concrete wall of the structure blown down. A 32 foot travel trailer was rolled twice and destroyed and a nearby mobile home suffered skirting damage.				
GRANT COUNTY --- 1.4 S FAIRMOUNT [40.40, -85.65]				
	04/19/11 21:51 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 21:52 EST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management officials reported numerous power lines down on County Road 1050 South.				
BLACKFORD COUNTY --- 2.1 SSW ROLL [40.52, -85.39]				
	04/19/11 21:54 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 21:55 EST		0	Source: Law Enforcement
Law enforcement officials reported a barn being blown off its foundation.				
HUNTINGTON COUNTY --- 3.9 ENE GOBLESVILLE [41.00, -85.45]				
	04/19/11 21:58 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 21:59 EST		0	Source: Amateur Radio
Amateur radio operators reported large branches down as well as some structural damage to a barn in the area.				
BLACKFORD COUNTY --- MONTPELIER [40.55, -85.28]				
	04/19/11 22:00 EST		0	Thunderstorm Wind (EG 60 kt)
	04/19/11 22:01 EST		0	Source: Law Enforcement
Law enforcement officials reported a large tree falling onto a trailer.				
WELLS COUNTY --- 1.3 WNW KINGSLAND [40.84, -85.19]				
	04/19/11 22:00 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 22:01 EST		0	Source: Broadcast Media
Local broadcast media reported a shed flattened and a barn roof destroyed in the town of Greenwood. In addition, a machinery building suffered roof damage and a shed was blown onto a pick-up truck.				
ADAMS COUNTY --- 1.1 E LINN GROVE [40.65, -85.01]				
	04/19/11 22:15 EST		0	Thunderstorm Wind (EG 55 kt)
	04/19/11 22:16 EST		0	Source: Law Enforcement
Law enforcement officials reported roofs off of several outbuildings as well as a chicken coop being blown over. Debris from some structures was blown into adjacent roads.				
JAY COUNTY --- 0.1 NNW ANTIVILLE [40.50, -84.98], 1.5 WSW JAY CITY [40.56, -84.88]				
	04/19/11 22:16 EST		0	Tornado (EF1, L: 6.91 mi , W: 50 yd)
	04/19/11 22:22 EST		0	Source: NWS Storm Survey
A survey of straight line wind damage indicated a circulation touched down north of the intersection of County Road 400 N and US 27, near Antiville. Evidence in trees suggested the circulation touched down in an open field and tracked northeast across US 27, snapping 5 power poles as it crossed, causing power flashes observed by local residents. The circulation did not remain in contact with the ground during its roughly 7 mile track. Areas of snapped trees or tree limbs were seen along the track. Structural damage was noted in two locations, mainly to garages or pole barns.				
JAY COUNTY --- 0.9 NE ANTIVILLE [40.51, -84.97]				
	04/19/11 22:17 EST		0	Thunderstorm Wind (EG 65 kt)
	04/19/11 22:18 EST		0	Source: Law Enforcement
Law enforcement officials reported three power poles were snapped along U.S. 27, between County Roads 400 and 500 North.				
A warm front attempted to move in during the day, but a strong easterly flow and extensive low clouds and fog did not allow the boundary to mix northward. Low pressure moved from Missouri towards northern Indiana during the evening hours. A line of strong to severe storms initiated ahead of the low and along the warm front and moved into southern parts of the area. A strong low level jet allowed for temperatures and moisture above the surface to increase, causing elevated instability. Damage occurred across several counties in southern portions with much of it occurring at tree top and roof levels, suggesting winds could not fully mix down. Surveys of several areas indicated that brief circulations were embedded within these wind damage swaths, leading to the confirmation of several weak tornadoes.				
BLACKFORD COUNTY --- HARTFORD CITY [40.45, -85.37]				
	04/22/11 23:20 EST		0	Hail (2.00 in)
	04/22/11 23:21 EST		0	Source: Trained Spotter
BLACKFORD COUNTY --- HARTFORD CITY [40.45, -85.37]				

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/22/11 23:21 EST		0	Hail (1.00 in)
	04/22/11 23:22 EST		0	Source: Emergency Manager

JAY COUNTY --- 0.7 S PENNVILLE [40.49, -85.15]

04/22/11 23:30 EST	0	Hail (1.75 in)
04/22/11 23:31 EST	0	Source: Trained Spotter

GRANT COUNTY --- 0.9 SE SHADY HILLS [40.56, -85.66]

04/23/11 00:03 EST	0	Hail (0.75 in)
04/23/11 00:04 EST	0	Source: Trained Spotter

ALLEN COUNTY --- 2.2 NE ROYAL OAKS [41.12, -85.05]

04/23/11 00:16 EST	0	Hail (0.88 in)
04/23/11 00:17 EST	0	Source: Trained Spotter

Thunderstorms developed along a slow moving frontal boundary during the late evening hours of the 22nd and continuing into the 23rd. Several reports of hail were received, with a few on the larger side.

LA PORTE COUNTY --- 0.7 N LA PORTE [41.61, -86.72]

04/26/11 15:20 CST	0	Hail (1.00 in)
04/26/11 15:21 CST	0	Source: Trained Spotter

LA PORTE COUNTY --- 1.2 NE LA PORTE [41.61, -86.70]

04/26/11 15:22 CST	0	Hail (1.00 in)
04/26/11 15:23 CST	0	Source: CoCoRaHS

A weak disturbance moved through portions of lower Michigan and northern Indiana during the afternoon hours of the 26th. Sufficient instability and shear exist to allow for thunderstorms to develop and produce marginally severe hail and locally gusty winds.

MICHIGAN, Extreme Southwest

BERRIEN COUNTY --- 0.5 E BUCHANAN [41.83, -86.36]

04/26/11 16:52 EST	0	Hail (1.00 in)
04/26/11 16:53 EST	0	Source: Trained Spotter

BERRIEN COUNTY --- 0.7 S ARDEN [41.97, -86.40]

04/26/11 16:56 EST	0	Thunderstorm Wind (EG 50 kt)
04/26/11 16:57 EST	0	Source: Emergency Manager

Emergency management officials reported minor siding damage to a home. Several smaller branches were broken and a small shed was moved off of its foundation.

BERRIEN COUNTY --- 0.5 E BUCHANAN [41.83, -86.36]

04/26/11 17:00 EST	0	Hail (1.00 in)
04/26/11 17:01 EST	0	Source: Trained Spotter

A trained spotter reported hail up to the size of quarters covering the ground.

BERRIEN COUNTY --- 0.9 NW BERRIEN CENTER [41.96, -86.28]

04/26/11 17:01 EST	0	Hail (1.00 in)
04/26/11 17:02 EST	0	Source: Trained Spotter

A trained spotter reported hail ranging in size from pea to quarter size falling for four to five minutes.

CASS COUNTY --- 0.5 W DOWAGIAC [41.98, -86.11]

04/26/11 17:10 EST	0	Hail (1.00 in)
04/26/11 17:11 EST	0	Source: Trained Spotter

A trained spotter reported quarter size hail falling in bursts. The hail was covering the ground in spots.

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A weak disturbance moved through portions of lower Michigan and northern Indiana during the afternoon hours of the 26th. Sufficient instability and shear exist to allow for thunderstorms to develop and produce marginally severe hail and locally gusty winds.

OHIO, Northwest

PUTNAM COUNTY --- 0.5 W COLUMBUS GROVE [40.92, -84.06]

04/19/11 14:10 EST	0	Hail (0.75 in)
04/19/11 14:11 EST	0	Source: Trained Spotter

PAULDING COUNTY --- 0.5 W ANTWERP [41.18, -84.74]

04/19/11 14:36 EST	0	Hail (0.75 in)
04/19/11 14:37 EST	0	Source: Trained Spotter

VAN WERT COUNTY --- 1.6 W VAN WERT ARPT [40.87, -84.63], 1.4 WNW VAN WERT ARPT [40.88, -84.62]

04/19/11 22:19 EST	0	Tornado (EF0, L: 0.46 mi , W: 50 yd)
04/19/11 22:20 EST	0	Source: NWS Storm Survey

A survey of damage west of Van Wert was found to be consistent with a brief tornado touchdown. The circulation touched down near the intersection of Liberty Road and Township Highway 140 and continued northeast for about a half mile, cross the intersection of State Route 224 and Lincoln Highway before lifting. A home suffered shingle damage on the south and west side of the roof. Every side of the home was covered with mud and mulch particularly on the east side of the home. A south facing garage door was blown out with a patio on the west side being destroyed and two by fours thrown into the ground. Winds are estimated between 80 and 85 mph.

VAN WERT COUNTY --- 0.3 WSW MONTICELLO [40.70, -84.43], 1.8 NE MONTICELLO [40.72, -84.40]

04/19/11 22:40 EST	0	Tornado (EF1, L: 2.09 mi , W: 100 yd)
04/19/11 22:42 EST	0	Source: NWS Storm Survey

A NWS survey of damage in Van Wert County determined that a circulation developed and touched down on State Road 116 south of Kolter Road. Damage consisted of mainly uprooted trees and broken tree limbs as it crossed into Allen County.

VAN WERT COUNTY --- CONVERSE [40.75, -84.42]

04/19/11 22:40 EST	0	Thunderstorm Wind (EG 60 kt)
04/19/11 22:41 EST	0	Source: Emergency Manager

Emergency management officials reported a barn destroyed with debris thrown across Converse Road.

ALLEN COUNTY --- 2.8 WNW SPENCERVILLE [40.72, -84.40], 2.4 NNW SPENCERVILLE [40.73, -84.37]

04/19/11 22:42 EST	0	Tornado (EF0, L: 1.94 mi , W: 100 yd)
04/19/11 22:44 EST	0	Source: NWS Storm Survey

A tornado continued into Allen County from Van Wert County impacting several structures. A large pole barn had roughly one-third of the roof removed, with a older barn being destroyed and debris thrown towards a residence. A piece of board was driven into the side of the home with debris being carried about a half mile to the north and east, being lifted over a tract of trees. The circulation appears to have lifted shortly after depositing the debris. The maximum width of the tornado was around 100 yards and winds were estimated in the 95 to 100 mph range.

ALLEN COUNTY --- 1.9 N CAIRO [40.86, -84.08], 2.4 NNE CAIRO [40.86, -84.07]

04/19/11 22:58 EST	0	Tornado (EF1, L: 0.71 mi , W: 100 yd)
04/19/11 22:59 EST	0	Source: NWS Storm Survey

A survey of wind damage in the area of Cairo indicated a brief circulation developed and touched down in an open field just southwest of the intersection of Hillville Road and State Road 65. The roof was removed from a residence as the circulation moved northeast. A barn on the property was destroyed with debris being carried up to a half mile away. An old school bus also suffered damage as a result of debris from the barn. The tornado continued to the northeast, approaching a set of railroad tracks, where numerous trees were topped as it began to lift and dissipate. Winds were estimated between 95 and 100 mph.

HENRY COUNTY --- 2.1 SE ELERY [41.28, -84.04]

04/19/11 23:07 EST	0	Thunderstorm Wind (EG 65 kt)
04/19/11 23:08 EST	0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Emergency management officials reported trees down at State Route 281, west of State Route 109. In addition, power lines were down near the intersection of State Route 281 and County Road 18.

A warm front attempted to move in during the day, but a strong easterly flow and extensive low clouds and fog did not allow the boundary to mix northward. Low pressure moved from Missouri towards northern Indiana during the evening hours. A line of strong to severe storms initiated ahead of the low and along the warm front and moved into southern parts of the area. A strong low level jet allowed for temperatures and moisture above the surface to increase, causing elevated instability. Damage occurred across several counties in southern portions with much of it occurring at tree top and roof levels, suggesting winds could not fully mix down. Surveys of several areas indicated that brief circulations were embedded within these wind damage swaths, leading to the confirmation of several weak tornadoes.

ALLEN COUNTY --- 0.9 NW LIMA [40.76, -84.11]

04/23/11 00:25 EST	0	Hail (1.00 in)
04/23/11 00:26 EST	0	Source: Trained Spotter

Thunderstorms developed along a slow moving frontal boundary during the late evening hours of the 22nd and continuing into the 23rd. A few reports of hail were received.

(OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z016) PUTNAM, (OH-Z025) ALLEN

04/28/11 02:26 EST	0.10M	High Wind (MAX 70 kt)
04/28/11 04:01 EST	0	

Deep low pressure tracked northeast along a stationary boundary laying across portions of central Indiana into northern Ohio. Numerous strong to severe storms occurred during the evening and moved towards the area, but did not produce any severe weather. As the low passed by, strong mixing to the ground occurred of much stronger winds. These winds caused pockets of non-thunderstorm wind damage across northwestern Ohio.

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
GRANT COUNTY --- 2.1 SSE GAS CITY [40.45, -85.61]				
	05/10/11 13:53 EST		0	Hail (1.75 in)
	05/10/11 13:54 EST		0	Source: Trained Spotter
GRANT COUNTY --- FAIRMOUNT [40.42, -85.65]				
	05/10/11 13:58 EST		0	Hail (1.75 in)
	05/10/11 13:59 EST		0	Source: Trained Spotter
BLACKFORD COUNTY --- HARTFORD CITY [40.45, -85.37]				
	05/10/11 14:15 EST		0	Hail (1.00 in)
	05/10/11 14:16 EST		0	Source: Trained Spotter
JAY COUNTY --- 0.9 SE DUNKIRK [40.37, -85.21]				
	05/10/11 14:16 EST		0	Hail (1.00 in)
	05/10/11 14:17 EST		0	Source: Public
BLACKFORD COUNTY --- 1.1 W HARTFORD CITY [40.45, -85.39]				
	05/10/11 14:22 EST		0	Hail (1.00 in)
	05/10/11 14:23 EST		0	Source: Trained Spotter
BLACKFORD COUNTY --- 1.5 NNE HARTFORD CITY ARPT [40.49, -85.37]				
	05/10/11 14:22 EST		0	Hail (1.75 in)
	05/10/11 14:23 EST		0	Source: CoCoRaHS
JAY COUNTY --- 0.7 S PENNVILLE [40.49, -85.15]				
	05/10/11 14:45 EST		0	Hail (1.00 in)
	05/10/11 14:46 EST		0	Source: Fire Department/Rescue
ADAMS COUNTY --- 0.5 E GENEVA [40.60, -84.96]				
	05/10/11 15:22 EST		0	Hail (1.00 in)
	05/10/11 15:23 EST		0	Source: Trained Spotter
ADAMS COUNTY --- 0.9 SE GENEVA [40.59, -84.96]				
	05/10/11 15:28 EST		0	Hail (0.75 in)
	05/10/11 15:29 EST		0	Source: Trained Spotter
ADAMS COUNTY --- 0.7 N BERNE [40.66, -84.95]				
	05/10/11 15:43 EST		0	Hail (0.75 in)
	05/10/11 15:44 EST		0	Source: Trained Spotter
ADAMS COUNTY --- 0.5 E PREBLE [40.83, -85.01]				
	05/10/11 16:01 EST		0	Hail (1.75 in)
	05/10/11 16:02 EST		0	Source: Trained Spotter
ADAMS COUNTY --- DECATUR [40.83, -84.93]				
	05/10/11 16:10 EST		0	Hail (1.00 in)
	05/10/11 16:11 EST		0	Source: Amateur Radio
ADAMS COUNTY --- DECATUR [40.83, -84.93]				
	05/10/11 16:12 EST		0	Hail (1.75 in)
	05/10/11 16:13 EST		0	Source: Fire Department/Rescue
ADAMS COUNTY --- DECATUR [40.83, -84.93]				

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/10/11 16:14 EST		0	Hail (2.50 in)
	05/10/11 16:15 EST		0	Source: Trained Spotter

A trained spotter reported tennis ball size hail at U.S. 224 and County Road 300 West.

ADAMS COUNTY --- 1.3 ENE RIVARE [40.83, -84.83]

05/10/11 16:27 EST	0	Hail (0.88 in)
05/10/11 16:28 EST	0	Source: Trained Spotter

A warm front worked north into northern Indiana during the afternoon and evening. A very unstable air mass was in place south of the front. The front became oriented from northwest to southeast and allowed for thunderstorm development. The storms were efficient hail producers with hail up to three inches in diameter being reported.

STARKE COUNTY --- 1.7 WNW WINONA [41.24, -86.60]

05/11/11 17:35 CST	0	Hail (1.00 in)
05/11/11 17:36 CST	0	Source: Trained Spotter

A trained spotter reported hail from penny to quarter size.

STARKE COUNTY --- KNOX [41.30, -86.63]

05/11/11 17:42 CST	0	Hail (0.88 in)
05/11/11 17:43 CST	0	Source: Trained Spotter

LA PORTE COUNTY --- 0.7 N LA PORTE [41.61, -86.72]

05/11/11 17:56 CST	0	Hail (0.75 in)
05/11/11 17:57 CST	0	Source: Trained Spotter

LA PORTE COUNTY --- TRACY [41.48, -86.68]

05/11/11 18:00 CST	0	Hail (1.00 in)
05/11/11 18:01 CST	0	Source: Trained Spotter

STARKE COUNTY --- KNOX [41.30, -86.63]

05/11/11 18:07 CST	0	Hail (1.00 in)
05/11/11 18:08 CST	0	Source: Trained Spotter

KOSCIUSKO COUNTY --- 1.3 WNW WARSAW [41.24, -85.85]

05/11/11 21:10 EST	0	Hail (0.88 in)
05/11/11 21:11 EST	0	Source: Public

The public reported pea to nickle size hail falling on the southwest side of Warsaw for six minutes.

A warm front was located across the region. Showers and thunderstorms developed along and north of it, with some of these becoming severe. Hail was reported in several locations.

HUNTINGTON COUNTY --- 5.5 SW BIPPUS [40.90, -85.70], 1.2 NW BIPPUS [40.96, -85.63], 2.2 SSE MAKIN [40.94, -85.56], 2.1 NW ANDREWS [40.87, -85.63]

05/14/11 17:01 EST	0	Flash Flood (due to Heavy Rain)
05/14/11 23:30 EST	0	Source: Emergency Manager

Numerous thunderstorms trained over northern Huntington County. Initial radar and eventual spotter reports confirmed three to more than four inches of rain falling. Numerous roads were covered with flowing water. Water was observed into building in Bippus, causing damage. The thunderstorms moved away from the area during the early morning hours of the 15th, with flooding problems persisting.

WABASH COUNTY --- 2.0 SSE BOLIVAR [40.94, -85.77], 1.4 N NORTH MANCHESTER ARP [40.99, -85.73], 4.9 ENE NORTH MANCHESTER ARP [41.00, -85.64], 4.5 E SERVIA [40.95, -85.64]

05/14/11 17:01 EST	0	Flash Flood (due to Heavy Rain)
05/14/11 23:30 EST	0	Source: Law Enforcement

Numerous thunderstorms trained over northeastern Wabash County. Radar and spotter reports confirmed three to more than four inches of rain fell. Numerous roads became covered with flowing water. While the rain ended during the overnight hours, flooding persisted through the first half of the 15th.

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BLACKFORD COUNTY --- 0.9 NNE ROLL [40.56, -85.37], 3.7 ENE MATAMORAS [40.56, -85.20], 4.6 NE TRENTON [40.50, -85.18], 2.0 NNE HARTFORD CITY ARPT [40.50, -85.36]				
	05/14/11 20:21 EST		0	Flash Flood (due to Heavy Rain)
	05/15/11 04:00 EST		0	Source: Emergency Manager
Emergency management officials reported numerous roads with high water across northern Blackford county. Several roads in and around Montpelier were closed due to the flooding, with water being reported into several basements, as well as the local fire station.				
JAY COUNTY --- 2.5 SSE PENNVILLE [40.47, -85.13], 3.4 SSE TRINITY [40.49, -84.81], 3.1 NE SALEM [40.35, -84.82], 1.7 WSW COMO [40.37, -85.11]				
	05/14/11 20:35 EST		0	Flood (due to Heavy Rain)
	05/15/11 04:00 EST		0	Source: Trained Spotter
A trained spotter reported a nearly 300 yard section of County Road 350, near County Road 300 impassable due to high water.				
HUNTINGTON COUNTY --- 5.5 SW BIPPUS [40.90, -85.70], 1.2 NW BIPPUS [40.96, -85.63], 2.2 SSE MAKIN [40.94, -85.56], 2.1 NW ANDREWS [40.87, -85.63]				
	05/14/11 23:30 EST		0.25M	Flood (due to Heavy Rain)
	05/15/11 14:00 EST		0	Source: Trained Spotter
Three to over four inches of rain fell over a period of a few hours, resulting in road closures and water into many businesses in and around the Bippus area. The rain subsided into the early morning hours of the 15th. However, flooding problems persisted well into the daylight hours. A portion of State Route 16 was washed out during the overnight hours near State Route 105, two miles south of Bippus, as flood waters continued to flow and recede. A NWS Cooperative Observer reported 4.5 inches of rain just south of Huntington.				
WABASH COUNTY --- 4.5 E SERVIA [40.95, -85.64], 2.0 SSE BOLIVAR [40.94, -85.77], 1.4 N NORTH MANCHESTER ARP [40.99, -85.73], 4.9 ENE NORTH MANCHESTER ARP [41.00, -85.64]				
	05/14/11 23:30 EST		0.25M	Flood (due to Heavy Rain)
	05/15/11 14:00 EST		0	Source: Trained Spotter
Numerous thunderstorms trained over northeastern Wabash county, with radar and eventually spotter confirmation, of three to more than four inches of rain falling. Flooding on roads slowly subsided during the daylight hours of the 15th.				
A weak surface trough and low pressure system tracking along it allowed for thunderstorms to develop across portions of northeastern Indiana. Weak flow parallel to the trough and redevelopment of thunderstorms produced rainfall rates of one to two inches per hour. This caused areas of flooding and flash flooding. No injuries were reported.				
STEBEN COUNTY --- 0.5 E HAMILTON [41.53, -84.91]				
	05/22/11 14:25 EST		0	Hail (1.00 in)
	05/22/11 14:26 EST		0	Source: Trained Spotter
MARSHALL COUNTY --- 0.9 SE PLYMOUTH [41.34, -86.31]				
	05/22/11 17:36 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 17:37 EST		0	Source: Broadcast Media
Local media reported a large tree was blown down onto a car on Michigan Street. No one was injured.				
MARSHALL COUNTY --- 1.6 E BREMEN [41.45, -86.12]				
	05/22/11 17:40 EST		0	Thunderstorm Wind (EG 50 kt)
	05/22/11 17:41 EST		0	Source: Emergency Manager
Emergency management officials reported several travel campers being destroyed or blown off their blocks.				
ST. JOSEPH COUNTY --- 0.9 SE MISHAWAKA [41.66, -86.16]				
	05/22/11 17:47 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 17:48 EST		0	Source: Broadcast Media
Local media reported large trees down onto Lincolnway East, blocking portions of the road.				
ELKHART COUNTY --- 0.6 SE WAKARUSA [41.52, -86.01]				
	05/22/11 18:05 EST		25K	Thunderstorm Wind (EG 60 kt)
	05/22/11 18:06 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A trained spotter reported several trees down near Wakarusa. In addition, a barn suffered extensive roof damage near the intersection of County Roads 42 and 103.				
NOBLE COUNTY --- 0.5 W LIGONIER [41.47, -85.59]				
	05/22/11 18:15 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 18:16 EST		0	Source: Law Enforcement
Law enforcement officials reported two trees were blown down.				
NOBLE COUNTY --- 2.1 W KENDALLVILLE [41.45, -85.31]				
	05/22/11 18:36 EST		0	Thunderstorm Wind (EG 50 kt)
	05/22/11 18:37 EST		0	Source: Broadcast Media
Local media reported a screened in porch and cedar playhouse/swing set was destroyed by strong winds.				
An unstable air mass along with moderate shear ahead of a upper level system, allowed for rapid thunderstorm development. A few reports of wind damage and hail were received.				
WHITLEY COUNTY --- 0.7 S LARWILL [41.17, -85.63]				
	05/23/11 14:44 EST		0	Hail (0.75 in)
	05/23/11 14:45 EST		0	Source: Trained Spotter
CASS COUNTY --- 3.5 S ROYAL CENTER [40.82, -86.50]				
	05/23/11 15:08 EST		0	Hail (1.00 in)
	05/23/11 15:09 EST		0	Source: Trained Spotter
MIAMI COUNTY --- 0.7 S MACY [40.96, -86.13]				
	05/23/11 15:10 EST		0	Hail (1.00 in)
	05/23/11 15:11 EST		0	Source: Trained Spotter
WABASH COUNTY --- 0.7 S ROANN [40.91, -85.92]				
	05/23/11 15:28 EST		0	Hail (0.88 in)
	05/23/11 15:29 EST		0	Source: Trained Spotter
WABASH COUNTY --- 1.7 NW SPEICHERVILLE [40.87, -85.82]				
	05/23/11 15:31 EST		0	Hail (0.75 in)
	05/23/11 15:32 EST		0	Source: Trained Spotter
WABASH COUNTY --- 0.7 S ROANN [40.91, -85.92]				
	05/23/11 15:32 EST		0	Thunderstorm Wind (EG 55 kt)
	05/23/11 15:33 EST		0	Source: Emergency Manager
Emergency management officials reported several trees down in the Roann area.				
DE KALB COUNTY --- 0.5 E ALTONA [41.35, -85.14]				
	05/23/11 15:33 EST		0	Hail (1.00 in)
	05/23/11 15:34 EST		0	Source: Trained Spotter
HUNTINGTON COUNTY --- 2.1 N HUNTINGTON [40.91, -85.48]				
	05/23/11 15:34 EST		0	Hail (0.75 in)
	05/23/11 15:35 EST		0	Source: Trained Spotter
WHITLEY COUNTY --- 0.5 W SOUTH WHITLEY [41.08, -85.63]				
	05/23/11 15:42 EST		0	Hail (0.75 in)
	05/23/11 15:43 EST		0	Source: Trained Spotter
HUNTINGTON COUNTY --- 1.8 ENE MONUMENT CITY [40.79, -85.57], 2.2 ENE MONUMENT CITY [40.79, -85.56]				
	05/23/11 16:32 EST		0	Tornado (EF0, L: 0.37 mi , W: 30 yd)
	05/23/11 16:33 EST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A survey of tree damage by NWS officials confirmed reports of a possible tornado touchdown in a wooded area west of the intersection of County Road 300 South and State Route 9. The tornado crossed over the highway and ended in a stand of trees on the east side of the highway. Only trees were damaged with winds estimated around 65 mph.				
HUNTINGTON COUNTY --- 1.0 W HUNTINGTON [40.88, -85.50]				
	05/23/11 16:43 EST		0	Hail (0.88 in)
	05/23/11 16:44 EST		0	Source: Amateur Radio
WELLS COUNTY --- 3.1 W UNIONDALE [40.83, -85.29]				
	05/23/11 16:59 EST		0	Hail (1.00 in)
	05/23/11 17:00 EST		0	Source: Trained Spotter
HUNTINGTON COUNTY --- 2.8 WSW ANDREWS [40.83, -85.65], 0.9 WNW BIPPUS [40.96, -85.63], 2.8 E GOBLESVILLE [40.97, -85.47], 2.0 SW HUNTINGTON MUNI ARPT [40.83, -85.50]				
	05/23/11 17:09 EST		0	Flash Flood (due to Heavy Rain)
	05/23/11 20:00 EST		0	Source: Law Enforcement
Law enforcement officials reported sandbagging was needed in the Andrews near the Wabash River, as well as other poor drainage areas. Portions of the Norwood subdivision were affected by the flooding.				
JAY COUNTY --- PORTLAND [40.43, -84.98]				
	05/23/11 18:05 EST		0	Thunderstorm Wind (EG 50 kt)
	05/23/11 18:06 EST		0	Source: Law Enforcement
Law enforcement officials reported several small trees down, blocking some roads. A small boat on a trailer was also pushed into a truck.				
WABASH COUNTY --- 3.4 SE ROANN [40.88, -85.88], 0.9 NNE NEWTON [40.98, -85.81], 0.1 S NORTH MANCHESTER ARP [40.97, -85.73], 2.5 SE URBANA [40.88, -85.76]				
	05/23/11 20:00 EST		0	Flash Flood (due to Heavy Rain)
	05/23/11 22:30 EST		0	Source: Law Enforcement
Law enforcement officials reported a trailer park was being flooded by high water, resulting in the evacuation of many of the residents. No damage estimates were available.				
A cold front moved through the region, interacting with moderate instability and strong shear. Numerous thunderstorms developed and became severe. A few of the storms took on supercell characteristics and produced brief tornadoes.				
GRANT COUNTY --- ROSEBURG [40.52, -85.73]				
	05/24/11 18:04 EST		0	Hail (1.00 in)
	05/24/11 18:05 EST		0	Source: Trained Spotter
GRANT COUNTY --- ROSEBURG [40.52, -85.73]				
	05/24/11 18:11 EST		0	Hail (1.75 in)
	05/24/11 18:12 EST		0	Source: Trained Spotter
PULASKI COUNTY --- 2.6 SE FRANCESVILLE [40.95, -86.84]				
	05/24/11 22:25 CST		0	Hail (1.75 in)
	05/24/11 22:26 CST		0	Source: Public
An intense storm allowed for hail to fall for around 15 minutes. The hail varied in size, with the largest stone up to the size of golf balls.				
A stationary boundary extended from Iowa into portions of northern Indiana. An unstable air mass and moderate shear combined for thunderstorm development. While wind fields were not overly impressive, degree of shear and lift allowed for storms which produced hail.				
PULASKI COUNTY --- 1.3 W FRANCESVILLE [40.98, -86.89], 0.6 NNW FRANCESVILLE [40.99, -86.87]				
	05/25/11 08:45 CST		0	Tornado (EF0, L: 0.78 mi , W: 50 yd)
	05/25/11 08:46 CST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A survey of damage in the Francesville area found indications of a brief circulation touchdown. The circulation touched down just west of U.S. 421 and tracked quickly east northeast across 421, knocking over five power poles. A pole barn was destroyed near the intersection of Bill and James Street with trees blown down in the 400 block of East Montgomery. The width of the tornado was no more than 50 yards with maximum winds estimated between 80 and 85 mph.				
MARSHALL COUNTY --- 0.5 E CULVER [41.22, -86.42]				
	05/25/11 10:40 EST		0	Thunderstorm Wind (EG 50 kt)
	05/25/11 10:41 EST		0	Source: Amateur Radio
Amateur radio operators reported a large branch being blown down.				
MIAMI COUNTY --- PERU [40.75, -86.07]				
	05/25/11 11:10 EST		0	Hail (0.88 in)
	05/25/11 11:11 EST		0	Source: Emergency Manager
WHITLEY COUNTY --- 3.3 SW TRI LAKES [41.22, -85.48]				
	05/25/11 11:51 EST		0	Hail (0.75 in)
	05/25/11 11:52 EST		0	Source: Trained Spotter
WHITLEY COUNTY --- COESSE [41.13, -85.40]				
	05/25/11 12:18 EST		0	Hail (0.75 in)
	05/25/11 12:19 EST		0	Source: Trained Spotter
HUNTINGTON COUNTY --- 3.8 ENE MONUMENT CITY [40.81, -85.54]				
	05/25/11 12:30 EST		0	Hail (0.75 in)
	05/25/11 12:31 EST		0	Source: Trained Spotter
ALLEN COUNTY --- ABOITE [41.00, -85.32]				
	05/25/11 12:38 EST		0	Hail (1.00 in)
	05/25/11 12:39 EST		0	Source: Trained Spotter
ALLEN COUNTY --- 2.1 NNE ARCOLA [41.13, -85.29]				
	05/25/11 12:40 EST		0	Hail (1.00 in)
	05/25/11 12:41 EST		0	Source: NWS Employee
HUNTINGTON COUNTY --- 0.7 S ROANOKE [40.96, -85.37]				
	05/25/11 12:43 EST		0	Hail (1.75 in)
	05/25/11 12:44 EST		0	Source: Public
HUNTINGTON COUNTY --- 4.2 ENE GOBLESVILLE [41.01, -85.45]				
	05/25/11 12:44 EST		0	Hail (1.50 in)
	05/25/11 12:46 EST		0	Source: Trained Spotter
ALLEN COUNTY --- 1.7 SE ELLISON [41.01, -85.23]				
	05/25/11 12:51 EST		0	Hail (0.75 in)
	05/25/11 12:52 EST		0	Source: Trained Spotter
ALLEN COUNTY --- 1.7 ESE DUNFEE [41.07, -85.30]				
	05/25/11 12:55 EST		0	Hail (1.75 in)
	05/25/11 12:56 EST		0	Source: Trained Spotter
A trained spotter reported golf ball size hail on State Route 14, just east of the Allen and Whitley county line.				
ALLEN COUNTY --- 2.5 ENE WESTLAWN [41.10, -85.21]				
	05/25/11 12:55 EST		0	Hail (1.00 in)
	05/25/11 12:56 EST		0	Source: Amateur Radio
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/25/11 13:02 EST		0	Hail (1.00 in)
	05/25/11 13:04 EST		0	Source: Trained Spotter
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ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	05/25/11 13:09 EST		0	Thunderstorm Wind (MG 54 kt)
	05/25/11 13:10 EST		0	Source: Trained Spotter
A trained spotter measures a 62 mph wind gust in Waynedale.				
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ALLEN COUNTY --- 0.9 NW HUGO [41.06, -85.19]				
	05/25/11 13:35 EST		0	Hail (0.88 in)
	05/25/11 13:36 EST		0	Source: Trained Spotter
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ALLEN COUNTY --- 1.3 SW ABOITE [40.99, -85.34], 2.3 WNW YODER [40.95, -85.21], 4.9 SE MONROEVILLE [40.92, -84.81], 4.4 NE GEORGETOWN [41.27, -84.80], 2.5 WNW HURSH [41.27, -85.01]				
	05/25/11 13:42 EST		0	Flash Flood (due to Heavy Rain)
	05/25/11 19:15 EST		0	Source: Trained Spotter
Numerous reports of 6 to 12 inches of water flowing over roads were received in and around the Fort Wayne area as two to three inches of rain fell in a short time. Three feet of standing water was reported in the 15000 block of Worth Road.				
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GRANT COUNTY --- 0.9 SE SHADY HILLS [40.56, -85.66]				
	05/25/11 14:11 EST		0	Hail (0.88 in)
	05/25/11 14:12 EST		0	Source: Trained Spotter
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GRANT COUNTY --- 0.9 SE SHADY HILLS [40.56, -85.66]				
	05/25/11 14:31 EST		0	Hail (1.00 in)
	05/25/11 14:32 EST		0	Source: Amateur Radio
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ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	05/25/11 14:51 EST		0	Thunderstorm Wind (EG 55 kt)
	05/25/11 14:52 EST		0	Source: Trained Spotter
A trained spotter reported a two foot diameter tree was uprooted in the 3400 block of Indiana Avenue.				
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ALLEN COUNTY --- 0.9 NW WAYNE DALE [41.03, -85.19]				
	05/25/11 14:55 EST		0	Thunderstorm Wind (EG 55 kt)
	05/25/11 14:56 EST		0	Source: Trained Spotter
A trained spotter reported a telephone pole was blown over near Ardmore Avenue, south of Engle Road. Several two to three inch diameter branches were broken from trees.				
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WELLS COUNTY --- 0.7 N BLUFFTON [40.74, -85.17]				
	05/25/11 15:18 EST		0	Hail (0.75 in)
	05/25/11 15:19 EST		0	Source: Trained Spotter
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ADAMS COUNTY --- 1.3 ENE RIVARE [40.83, -84.83]				
	05/25/11 15:35 EST		0	Hail (0.88 in)
	05/25/11 15:36 EST		0	Source: Trained Spotter
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GRANT COUNTY --- 0.9 NE GAS CITY [40.49, -85.61]				
	05/25/11 18:30 EST		0	Hail (1.75 in)
	05/25/11 18:31 EST		0	Source: Law Enforcement
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GRANT COUNTY --- 1.7 ENE GAS CITY [40.49, -85.59]				
	05/25/11 18:37 EST		0	Hail (0.88 in)
	05/25/11 18:38 EST		0	Source: Trained Spotter
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GRANT COUNTY --- DAVIS [40.58, -85.63]				

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/25/11 19:20 EST		0	Hail (1.00 in)
	05/25/11 19:21 EST		0	Source: Trained Spotter
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GRANT COUNTY --- 0.9 SE SHADY HILLS [40.56, -85.66]				
	05/25/11 22:32 EST		0	Thunderstorm Wind (EG 50 kt)
	05/25/11 22:33 EST		0	Source: Trained Spotter
Trained spotters reported several tree limbs, up to four inches in diameter, down on several streets in and around Marion.				
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WELLS COUNTY --- LIBERTY CENTER [40.70, -85.28]				
	05/25/11 23:03 EST		0	Thunderstorm Wind (MG 54 kt)
	05/25/11 23:04 EST		0	Source: Trained Spotter
A trained spotter measured a 62 mph wind gust. Several limbs and larger branches were down in the area of the wind gust, some blocking roads.				
A warm front was located from southwestern Indiana into northwestern Ohio through the 25th and into the early morning hours of the 26th. Several waves moved along the front, with each one generating thunderstorms. Numerous hail reports were received, with pockets of wind damage as well as an isolated tornado.				
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ALLEN COUNTY --- 1.4 SSW ABOITE [40.98, -85.33], 1.8 SSE CEDAR CANYONS [41.21, -85.06], 0.8 SW MILAN CENTER [41.14, -84.96], 1.5 WNW YODER [40.94, -85.19]				
	05/26/11 15:00 EST		0	Flash Flood (due to Heavy Rain)
	05/26/11 18:00 EST		0	Source: Law Enforcement
Law enforcement official reported several roads in the city of Fort Wayne having flowing water. Three roads were reported closed, with high water reported on roughly an additional half dozen.				
Thunderstorms developed and produced heavy rainfall over an already saturated caused flooding across portions of Allen County.				
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GRANT COUNTY --- 3.4 ENE JALAPA [40.65, -85.69]				
	05/28/11 19:20 EST		0	Hail (1.75 in)
	05/28/11 19:21 EST		0	Source: Public
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HUNTINGTON COUNTY --- WARREN [40.68, -85.43]				
	05/28/11 19:32 EST		0	Hail (1.00 in)
	05/28/11 19:33 EST		0	Source: Fire Department/Rescue
A frontal boundary moved across the region. The majority of thunderstorms moved from central Illinois into central Indiana. However a few storms developed further north and produced hail.				
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LA PORTE COUNTY --- WANATAH [41.43, -86.90]				
	05/29/11 12:55 CST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 12:56 CST		0	Source: Public
The public reported power lines down on U.S. 421 and U.S. 30.				
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LA PORTE COUNTY --- 2.2 ESE THOMASTON [41.37, -86.78]				
	05/29/11 13:04 CST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 13:05 CST		0	Source: Trained Spotter
Trained spotters reported four power poles and large trees down.				
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LA PORTE COUNTY --- 3.5 N LA CROSSE [41.37, -86.90]				
	05/29/11 13:04 CST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 13:05 CST		0	Source: Emergency Manager
Emergency management officials reported trees and power lines down causing U.S. 421 to be closed between U.S. 30 and State Route 8. Two residences also suffered damage from the high winds.				
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PULASKI COUNTY --- 0.9 NW FRANCESVILLE [40.99, -86.88]				
	05/29/11 13:05 CST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 13:06 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Law enforcement officials reported power poles down on U.S. 421 near Francesville. In addition numerous trees were blown down across the county.				
STARKE COUNTY --- 9.9 NNW KOONTZ LAKE [41.55, -86.58]				
	05/29/11 13:15 CST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 13:16 CST		0	Source: Law Enforcement
Law enforcement officials received multiple reports of trees down in Koontz Lake. Two intersections also had trees down. One near Route 23 and County Road 300 North and the other near 39 and State Route 8.				
ST. JOSEPH COUNTY --- 2.1 NNE LAKEVILLE [41.55, -86.27]				
	05/29/11 14:33 EST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 14:34 EST		0	Source: Trained Spotter
Trained spotter reported trees down and U.S. 31 and New Road. One tree was blocking a roadway.				
MARSHALL COUNTY --- BREMEN [41.45, -86.15]				
	05/29/11 14:35 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 14:36 EST		0	Source: Emergency Manager
Emergency management officials reported a tree down in the 1800 block of U.S. 6.				
MARSHALL COUNTY --- 4.0 E LAKE OF THE WOODS [41.39, -86.15]				
	05/29/11 14:37 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 14:38 EST		0	Source: Emergency Manager
Emergency management officials reported a tree down near the intersection of Fir and 6th Road.				
ELKHART COUNTY --- 0.5 ENE ELKHART MIDWAY ARPT [41.62, -85.91]				
	05/29/11 14:45 EST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 14:46 EST		0	Source: Trained Spotter
A trained spotter reported three large trees down, one onto a car, along Rebecca Lane. No one was injured.				
ELKHART COUNTY --- 0.5 W ELKHART [41.68, -85.98]				
	05/29/11 14:50 EST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 14:51 EST		0	Source: Law Enforcement
Law enforcement officials reported widespread tree and power line damage across the county.				
KOSCIUSKO COUNTY --- 0.7 S MILFORD [41.41, -85.85], 0.7 S SYRACUSE [41.41, -85.75]				
	05/29/11 14:50 EST		0	Thunderstorm Wind (EG 70 kt)
	05/29/11 14:51 EST		0	Source: Emergency Manager
Emergency management officials reported numerous trees and power lines down from Milford extending east into Syracuse.				
ELKHART COUNTY --- 3.1 W GOSHEN [41.58, -85.89]				
	05/29/11 15:05 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:06 EST		0	Source: Amateur Radio
Amateur radio operators reported power lines down onto the road at the intersection of County Roads 17 and 32. Several three to four inch diameter tree limbs were also blown down.				
ELKHART COUNTY --- 4.5 N GOSHEN [41.65, -85.82]				
	05/29/11 15:06 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:07 EST		0	Source: Amateur Radio
Amateur radio operators reported power lines down west of State Route 15, on County Road 20.				
NOBLE COUNTY --- 2.6 E KIMMELL [41.40, -85.50]				
	05/29/11 15:14 EST		0	Thunderstorm Wind (EG 61 kt)
	05/29/11 15:15 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A trained spotter measured a 70 mph wind gust.				
LAGRANGE COUNTY --- MONGO [41.68, -85.28]				
	05/29/11 15:18 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:19 EST		0	Source: Amateur Radio
Amateur radio operators reported a large tree blocking State Route 3, just south of Mongo.				
STEUBEN COUNTY --- 1.5 SSW NEVADA MILLS [41.71, -85.09]				
	05/29/11 15:23 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:24 EST		0	Source: Trained Spotter
A trained spotter reported a tree down onto a house in the Lake Gage area.				
STEUBEN COUNTY --- FLINT [41.65, -85.13]				
	05/29/11 15:24 EST		10K	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:25 EST		0	Source: Amateur Radio
Amateur radio operators reported the roof of a house being peeled off about two-thirds of the way.				
STEUBEN COUNTY --- FLINT [41.65, -85.13]				
	05/29/11 15:25 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:26 EST		0	Source: Amateur Radio
Amateur radio operators reported a tree down on County Road 100 North, east of Flint Road.				
STEUBEN COUNTY --- FREMONT [41.73, -84.93]				
	05/29/11 15:33 EST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 15:34 EST		0	Source: Amateur Radio
Amateur radio operators reported several power lines and trees down in and around Fremont.				
STEUBEN COUNTY --- 1.0 E ANGOLA [41.63, -84.98]				
	05/29/11 15:35 EST		0	Hail (1.00 in)
	05/29/11 15:36 EST		0	Source: Amateur Radio
STEUBEN COUNTY --- ANGOLA [41.63, -85.00]				
	05/29/11 15:35 EST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 15:36 EST		0	Source: Law Enforcement
Law enforcement officials reported numerous trees and tree limbs down across the county.				
STEUBEN COUNTY --- 0.7 N CLEAR LAKE [41.74, -84.83]				
	05/29/11 15:37 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:38 EST		0	Source: Amateur Radio
Amateur radio operators reported trees down in the Clear Lake area.				
DE KALB COUNTY --- 0.5 W AUBURN [41.37, -85.06]				
	05/29/11 15:40 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 15:41 EST		0	Source: Law Enforcement
Law enforcement officials reported numerous trees down.				
STEUBEN COUNTY --- 0.7 N CLEAR LAKE [41.74, -84.83]				
	05/29/11 15:40 EST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 15:41 EST		0	Source: Emergency Manager
Emergency management officials reported two garages were flattened by strong winds in Clear Lake. Trees were also reported falling onto six different homes in Lake Gage area. Numerous other reports of tree damage across the northern part of the county.				
A warm front worked north into Northern Indiana during the late morning hours. A line of severe thunderstorms developed in eastern				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Iowa and moved rapidly east, reaching the area by mid-afternoon. The southern end of the line encountered an increasing elevated mixed layer, resulting in a weakening trend. However the northern parts of the line remained strong, to severe with occasional circulations and mergers on the leading edge. Numerous reports of wind damage were received as well as a few instances of hail.				
ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	05/31/11 16:30 EST		0	Thunderstorm Wind (EG 55 kt)
	05/31/11 16:31 EST		0	Source: Fire Department/Rescue

Fire department officials reported power lines and poles down near the intersection of Campeau Street and Northwood Drive.

ST. JOSEPH COUNTY --- 1.7 NW SOUTH BEND [41.69, -86.27]				
	05/31/11 16:30 EST		10K	Thunderstorm Wind (EG 55 kt)
	05/31/11 16:31 EST		0	Source: Law Enforcement

Law enforcement officials reported several trees down in and around South Bend and Mishawaka. One of the trees fell onto a car.

A cold front was located to the west of the area. Unstable conditions and weak convergence allowed for isolated thunderstorm development.

MICHIGAN, Extreme Southwest

BERRIEN COUNTY --- 0.7 N THREE OAKS [41.81, -86.60]				
	05/11/11 19:27 EST		0	Thunderstorm Wind (EG 65 kt)
	05/11/11 19:28 EST		0	Source: Trained Spotter

A trained spotter reported around eight large pine trees, roughly 40 to 50 feet tall, uprooted.

BERRIEN COUNTY --- 2.1 SSW NEW TROY [41.85, -86.56]				
	05/11/11 19:34 EST		0	Hail (0.88 in)
	05/11/11 19:35 EST		0	Source: Trained Spotter

BERRIEN COUNTY --- 0.5 W THREE OAKS [41.80, -86.61]				
	05/12/11 08:37 EST		0	Hail (0.88 in)
	05/12/11 08:38 EST		0	Source: Law Enforcement

Law enforcement officials reported mainly pea size hail, with a few hailstones to the size of nickels.

A warm front was located across the region. Showers and thunderstorms developed along and north of it, with some of these becoming severe. Hail was reported in several locations.

HILLSDALE COUNTY --- MONTGOMERY [41.78, -84.80]				
	05/22/11 14:55 EST		0	Hail (0.88 in)
	05/22/11 14:56 EST		0	Source: Trained Spotter

BRANCH COUNTY --- 0.9 SW BRONSON ARPT [41.87, -85.19]				
	05/22/11 19:10 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 19:11 EST		0	Source: Emergency Manager

Emergency management officials reported a large limb down onto a power line and pole near Bronson, causing a fire at the pole.

BRANCH COUNTY --- 5.2 SW BRONSON [41.82, -85.26]				
	05/22/11 19:10 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 19:11 EST		0	Source: Emergency Manager

Emergency management officials reported several trees down.

BRANCH COUNTY --- 1.0 SE UNION CITY [42.06, -85.12]				
	05/22/11 19:15 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 19:16 EST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management officials reported trees down 1 mile southeast of Union City.				
BRANCH COUNTY --- 5.0 SE UNION CITY [42.02, -85.06]				
	05/22/11 19:16 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 19:17 EST		0	Source: Emergency Manager
Emergency management officials reported trees down five miles southeast of Union City.				
BRANCH COUNTY --- 2.5 NW ALGANSEE [41.85, -84.92]				
	05/22/11 19:19 EST		0	Thunderstorm Wind (EG 60 kt)
	05/22/11 19:20 EST		0	Source: Emergency Manager
Emergency management officials reported a barn was destroyed on Campbell Road, between Freemont and Brocklebank Roads.				
BRANCH COUNTY --- 0.7 S COLDWATER [41.94, -85.00]				
	05/22/11 19:20 EST		0	Thunderstorm Wind (EG 60 kt)
	05/22/11 19:21 EST		0	Source: Emergency Manager
Emergency management officials reported several trees down on US-12, just west of Coldwater.				
An unstable air mass along with moderate shear ahead of a upper level system, allowed for rapid thunderstorm development. A few reports of wind damage and hail were received.				
(MI-Z077) BERRIEN				
	05/22/11 16:00 EST	1	0	Rip Current
	05/22/11 16:01 EST		0	
Direct Fatalities: M19IW				
A 19 year old swimmer walked to the end of the pier and jumped into the water where increasingly higher waves were observed. A combination of the strong current along the pier, increasing waves and 60 degree water all combined to cause problems for the novice swimmer. Officials located the body of the teen at 6:19 pm EDT 15 to 18 feet underwater.				
CASS COUNTY --- 4.1 SSE MARCELLUS [41.98, -85.79], 4.5 SE MARCELLUS [41.98, -85.76]				
	05/29/11 15:00 EST		0	Thunderstorm Wind (EG 65 kt)
	05/29/11 15:01 EST		0	Source: NWS Storm Survey
A survey of damage indicated the start of a roughly one mile wide swath of wind damage across northeastern Cass county. Numerous trees were damaged as a result of a concentrated burst of wind that continued into St. Joseph county in Michigan. Winds were likely in the 70 to 75 mph range as the line of storms moved into St. Joseph county.				
ST. JOSEPH COUNTY --- 4.0 SSW HOWARDSVILLE [41.98, -85.76], 1.2 NE PARKVILLE [42.03, -85.54]				
	05/29/11 15:01 EST		0	Thunderstorm Wind (EG 85 kt)
	05/29/11 15:14 EST		0	Source: NWS Storm Survey
A survey of damage indicated the start of a roughly one mile wide swath of wind damage that started in northeastern Cass county and continued into St. Joseph county. The swath of wind occurred mainly across a heavily wooded portion of the county, resulting in hundreds of trees being snapped or uprooted. In addition, power poles and lines in the area suffered extensive damage. Wind speeds were estimated to be in the 90 to 100 mph range based on the degree of damage and radar evidence.				
ST. JOSEPH COUNTY --- 0.6 SSW MOORE PARK [42.01, -85.64], 1.7 WNW PARKVILLE [42.02, -85.58]				
	05/29/11 15:10 EST		0	Tornado (EF1, L: 2.85 mi , W: 100 yd)
	05/29/11 15:12 EST		0	Source: NWS Storm Survey
A survey of extensive tree damage was performed in northwestern St. Joseph county. While the majority of the damage was a result of straight-line winds, damage patterns indicate that a circulation briefly formed and touched down. The circulation touched down just west of Moore Park and moved rapidly northeast, dissipating near the intersection of Marcellus and Hutchinson Road.				
BRANCH COUNTY --- 1.8 SE COLDWATER [41.93, -84.98], 2.0 SE COLDWATER [41.93, -84.97]				
	05/29/11 15:32 EST		50K	Tornado (EF1, L: 0.33 mi , W: 50 yd)
	05/29/11 15:33 EST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A survey of damage was conducted in the Coldwater area. The damage found was consistent with a brief tornado touchdown within an area of wind damage around the touchdown location. The circulation touched down near U.S. 12 and Interstate 69, at 364 South Michigan Avenue. Major roof damage to a storage facility occurred, along with substantial tree damage. The garage door on the east side of a house was blown in just south of Woodward Drive. The tornado passed across Interstate 69 depositing debris on portions of the Interstate, causing brief lane closures. The damage was consistent with an EF1 with winds of around 90 mph.				

A warm front worked north into portions of far southern lower Michigan during the late morning hours. A line of severe thunderstorms developed in eastern Iowa and moved rapidly east into Indiana. Initially the storms were sub severe as they moved across Lake Michigan but quickly organized and became severe as they entered St. Joseph county. An area of wind damage occurred across St. Joseph county with a brief tornado touched down in Coldwater in Branch county.

CASS COUNTY --- 3.8 SE DAILEY [41.84, -86.03]

05/31/11 16:49 EST	0	Thunderstorm Wind (EG 55 kt)
05/31/11 16:50 EST	0	Source: Law Enforcement

Law enforcement officials reported a large tree down in the Jefferson Township area.

A cold front was located to the west of the area. Unstable conditions and weak convergence allowed for isolated thunderstorm development.

OHIO, Northwest

VAN WERT COUNTY --- 2.7 WNW VAN WERT CIRCLE S AR [40.83, -84.58]

05/10/11 16:40 EST	0	Hail (1.75 in)
05/10/11 16:41 EST	0	Source: Emergency Manager

VAN WERT COUNTY --- CAVETT [40.95, -84.58]

05/10/11 16:55 EST	0	Hail (1.00 in)
05/10/11 16:56 EST	0	Source: Amateur Radio

A warm front worked north into northwestern Ohio during the afternoon and evening. A very unstable air mass was in place south of the front. The front became oriented from northwest to southeast and allowed for thunderstorm development. The majority of the storms remained confined to portions of northern Indiana. However, a few did produce large hail across Van Wert county.

ALLEN COUNTY --- 1.3 ESE WEST NEWTON [40.64, -83.88], 3.5 SW WESTMINSTER [40.64, -84.02], 2.1 NNE LIMA [40.78, -84.09], 4.0 S BLUFFTON ARPT [40.82, -83.86]

05/11/11 05:13 EST	0	Flash Flood (due to Heavy Rain)
05/11/11 09:28 EST	0	Source: Law Enforcement

Law enforcement officials reported Lafayette Road, between Pevee Road and Bentley Road, closed due to flooding. One home on Pevee Road was reported to have flooding. Surrounding areas also reported water on roadways.

A warm front was located across the region. Showers and thunderstorms developed along and north of it. Severe weather was not observed across the area, but training of storms caused localized flooding across portions of eastern Allen county.

ALLEN COUNTY --- 2.0 NE GOMER [40.85, -84.15], 1.9 WSW KEMP [40.71, -84.25], 2.5 SW WESTMINSTER [40.65, -84.01], 2.2 NE BEAVERDAM [40.85, -83.94]

05/14/11 14:00 EST	0	Flash Flood (due to Heavy Rain)
05/14/11 16:00 EST	0	Source: Law Enforcement

Law enforcement officials reported a underpass flooded in the city of Lima. In addition, a few of the county roads had high water issues in mainly low areas.

HENRY COUNTY --- 2.5 N OKOLONA [41.39, -84.22], 1.5 SSW GERALD [41.43, -84.14], 0.9 WSW NAPOLEON HENRY CO AR [41.37, -84.09], 2.5 WSW NAPOLEON [41.36, -84.17]

05/14/11 15:50 EST	0	Flash Flood (due to Heavy Rain)
05/14/11 18:30 EST	0	Source: Emergency Manager

Emergency management officials reported several streets in and around Napoleon becoming water covered, forcing closures of these roads.

DEFIANCE COUNTY --- 0.9 WSW NEY [41.37, -84.53], 0.7 SE NEY [41.37, -84.51], 0.5 NE NEY [41.39, -84.52], 0.8 WNW NEY [41.38, -84.53]

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/14/11 18:13 EST		0	Flash Flood (due to Heavy Rain)
	05/15/11 04:00 EST		0	Source: Emergency Manager
Emergency management officials reported several roads closed due to high flowing water in and around Ney. Basement flooding was occurring near Lick Creek as a result of rapidly rising water levels.				
A weak surface trough and low pressure system tracking along it allowed for thunderstorms to develop across portions of northwestern Ohio. Weak flow parallel to the trough allowed for redevelopment of thunderstorms, producing rainfall rates of one to two inches per hour. This caused areas of flooding and flash flooding. No injuries were reported.				
WILLIAMS COUNTY --- 0.5 W MONTPELIER [41.58, -84.61]				
	05/22/11 15:03 EST		0	Thunderstorm Wind (EG 55 kt)
	05/22/11 15:04 EST		0	Source: Law Enforcement
Law enforcement officials reported several trees down around Montpelier.				
An unstable air mass along with moderate shear ahead of a upper level system, allowed for rapid thunderstorm development. A few reports of wind damage and hail were received.				
VAN WERT COUNTY --- 1.6 E SCHUMM [40.75, -84.69], 1.2 SSE OHIO CITY [40.75, -84.61]				
	05/23/11 17:56 EST		0	Tornado (EF1, L: 4.11 mi , W: 100 yd)
	05/23/11 18:02 EST		0	Source: NWS Storm Survey
A survey of damage was performed by NWS officials, confirming a tornado touched down near the intersection of Walnut Grove and Alspach Roads. As it traveled east, eyewitness reports indicated that at least two funnels were in contact with the ground. They quickly merged into one near Kneller Road, where the greatest concentration of damage was found. As it continued east, the tornado became rain-wrapped and eventually lifted near the intersection of Walnut Grove and Burris Roads. While the majority of the damage was in the range of an EF0, the location where the funnels merged was determined to be caused by winds of between 90 and 95 mph.				
A cold front moved through the region, interacting with moderate instability and strong shear. Numerous thunderstorms developed and became severe. A few of the storms took on supercell characteristics and produced brief tornadoes.				
DEFIANCE COUNTY --- 3.5 SW HICKSVILLE [41.27, -84.80], 4.0 SSE HICKSVILLE [41.25, -84.71], 2.0 ENE SIX CORNERS [41.33, -84.67], 2.1 NW SIX CORNERS [41.34, -84.72]				
	05/25/11 13:52 EST		0.25M	Flash Flood (due to Heavy Rain)
	05/25/11 19:15 EST		0	Source: Emergency Manager
Emergency management officials reported flooding and flash flooding across much of the western half of the county. The Hicksville Community Hospital had water flowing into lower portions of the structure, requiring sandbagging. Laboratory areas were flooded, but the sandbagging efforts kept any water out of patient areas. Several roads were closed through the county, including U.S. 127 near Mud Creek, which quickly went over its banks. Video footage from a newspaper reported showed three to six inches of water flowing from a golf course pond into the intersection of Carpenter and River Roads. Exact damage figures were not available, but flooding damage across the county is estimated around \$250,000.				
PAULDING COUNTY --- 1.7 WSW ANTWERP [41.17, -84.76]				
	05/25/11 13:53 EST		0	Hail (1.00 in)
	05/25/11 13:54 EST		0	Source: Trained Spotter
PAULDING COUNTY --- 0.9 NW PAULDING [41.14, -84.58]				
	05/25/11 14:19 EST		0	Hail (0.75 in)
	05/25/11 14:20 EST		0	Source: Emergency Manager
VAN WERT COUNTY --- 0.7 N VAN WERT ARPT [40.88, -84.60], 0.8 NNE VAN WERT ARPT [40.88, -84.60]				
	05/25/11 14:26 EST		0	Tornado (EF0, L: 0.15 mi , W: 40 yd)
	05/25/11 14:27 EST		0	Source: Emergency Manager
A survey of damage was done in an area of a possible tornado sighting. Damage, in combination with eyewitness reports, confirms a circulation touched down for a matter of seconds in the town of Van Wert, crossing Kear Road. Power poles were blown over at the point of touchdown. The width of the circulation was no more than 40 yards.				
PAULDING COUNTY --- 3.9 W ANTWERP [41.18, -84.80], 1.8 NNE ANTWERP [41.20, -84.72], 4.1 NNW KNOXDALE [41.25, -84.71], 6.2 NW ANTWERP [41.25, -84.80]				
	05/25/11 14:30 EST		0	Flash Flood (due to Heavy Rain)
	05/25/11 19:15 EST		0	Source: Newspaper

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management officials reported to the local newspaper that County Road 204, between County Road 7 and the state line were closed due to high water. Several other roads in the extreme northwestern part of the county were also seeing three to 6 inches of water flowing across them as ditches began to overflow.				
PUTNAM COUNTY --- OTTAWA [41.02, -84.05]				
	05/25/11 15:23 EST		0	Hail (0.75 in)
	05/25/11 15:24 EST		0	Source: Trained Spotter
VAN WERT COUNTY --- 0.5 W VAN WERT [40.87, -84.58]				
	05/25/11 15:51 EST		0	Hail (1.50 in)
	05/25/11 15:52 EST		0	Source: Emergency Manager
Emergency management officials observed ping pong size hail at the Van Wert County Emergency Operations Center.				
VAN WERT COUNTY --- 0.5 W VAN WERT [40.87, -84.58]				
	05/25/11 15:51 EST		0	Thunderstorm Wind (MG 50 kt)
	05/25/11 15:52 EST		0	Source: Emergency Manager
A 58 mph wind gust was recorded at the Emergency Operations Center in Van Wert.				
ALLEN COUNTY --- 0.6 NNW KEMP [40.73, -84.22]				
	05/25/11 16:45 EST		0	Thunderstorm Wind (EG 55 kt)
	05/25/11 16:46 EST		0	Source: Trained Spotter
A trained spotter reported power lines down across Agether Road, east of Kemp Road.				
A warm front was located from southwestern Indiana into northwestern Ohio through the 25th and into the early morning hours of the 26th. Several waves moved along the front, with each one generating thunderstorms. Numerous hail reports were received, with pockets of wind damage as well as an isolated tornado.				
WILLIAMS COUNTY --- HALLOCK [41.53, -84.55]				
	05/29/11 15:55 EST		0	Thunderstorm Wind (EG 60 kt)
	05/29/11 15:56 EST		0	Source: Emergency Manager
Emergency management officials reported power poles down along State Route 15.				
WILLIAMS COUNTY --- 0.7 N WEST UNITY [41.59, -84.43]				
	05/29/11 15:58 EST		0	Thunderstorm Wind (EG 56 kt)
	05/29/11 15:59 EST		0	Source: Public
Wind gusts were estimated between 60 and 70 mph.				
FULTON COUNTY --- 2.1 SW FAYETTE [41.65, -84.35]				
	05/29/11 16:00 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 16:01 EST		0	Source: Emergency Manager
Emergency management officials reported trees down in the Harrison Lake area. In addition, damage occurred to some trailer campers in adjacent camp grounds.				
FULTON COUNTY --- 0.5 W ARCHBOLD [41.52, -84.31]				
	05/29/11 16:15 EST		0	Thunderstorm Wind (EG 65 kt)
	05/29/11 16:16 EST		0	Source: Emergency Manager
Emergency management officials reported a two mile stretch of power poles blown down along State Route 66, starting at State Route 2.				
FULTON COUNTY --- 2.3 SSW OAKSHADE [41.64, -84.17]				
	05/29/11 16:15 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 16:16 EST		0	Source: Emergency Manager
Emergency management officials reported trees down at the intersection of County Road 16 and M.				
FULTON COUNTY --- LYONS [41.70, -84.07]				

Storm Data and Unusual Weather Phenomena - May 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/29/11 16:19 EST		0	Thunderstorm Wind (MG 56 kt)
	05/29/11 16:20 EST		0	Source: Trained Spotter
A trained spotter measured a 65 mph wind gust.				
<hr/>				
FULTON COUNTY --- 0.9 SE ASSUMPTION [41.66, -83.91]				
	05/29/11 16:31 EST		0	Thunderstorm Wind (MG 51 kt)
	05/29/11 16:32 EST		0	Source: Mesonet
<hr/>				
FULTON COUNTY --- 2.5 SW OAKSHADE [41.65, -84.19]				
	05/29/11 16:40 EST		0	Thunderstorm Wind (EG 55 kt)
	05/29/11 16:41 EST		0	Source: Emergency Manager

Emergency management officials reported a house trailer suffered roof damage on County Road N between County Roads 16 and 16-3. Trees were also observed down in the area.

A warm front worked north into northwestern Ohio during the late morning hours. A line of severe thunderstorms developed in eastern Iowa and moved rapidly east, reaching the area by mid-afternoon. The southern end of the line encountered an increasing elevated mixed layer, resulting in a weakening trend. However the northern parts of the line remained strong to severe, with occasional circulations and mergers on the leading edge. Numerous reports of wind damage were received as well as a few instances of hail.

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
BLACKFORD COUNTY --- HARTFORD CITY [40.45, -85.37]				
	06/04/11 15:40 EST		50K	Thunderstorm Wind (EG 60 kt)
	06/04/11 15:41 EST		0	Source: Emergency Manager
Emergency management officials reported numerous trees and tree limbs down throughout Hartford City. Windows were blown out on some of the downtown businesses.				
PULASKI COUNTY --- 0.5 E DENHAM [41.15, -86.71]				
	06/04/11 16:25 CST		0	Thunderstorm Wind (EG 55 kt)
	06/04/11 16:26 CST		0	Source: Broadcast Media
Local media outlets relayed trees were blown down in the northern portion of the county near the Starke and Pulaski county line.				
PULASKI COUNTY --- 0.5 E RIPLEY [41.10, -86.66]				
	06/04/11 16:43 CST		0	Hail (1.00 in)
	06/04/11 16:44 CST		0	Source: Emergency Manager
WHITE COUNTY --- 5.5 N BADGER GROVE [40.66, -86.96]				
	06/04/11 17:30 EST		0	Thunderstorm Wind (EG 55 kt)
	06/04/11 17:31 EST		0	Source: Trained Spotter
A trained spotter reported power lines down as well as roof damage to a barn from the strong winds.				
MIAMI COUNTY --- 1.6 W CONVERSE [40.58, -85.90]				
	06/04/11 17:32 EST		0	Thunderstorm Wind (EG 55 kt)
	06/04/11 17:33 EST		0	Source: Emergency Manager
Emergency management officials reported a grain bin was blown down by strong winds. In addition, the roof of a barn was blown off.				
HUNTINGTON COUNTY --- 3.9 ESE BANQUO [40.68, -85.55]				
	06/04/11 17:46 EST		0	Hail (1.00 in)
	06/04/11 17:47 EST		0	Source: Amateur Radio
HUNTINGTON COUNTY --- WARREN [40.68, -85.43]				
	06/04/11 17:48 EST		0	Hail (0.88 in)
	06/04/11 17:49 EST		0	Source: Fire Department/Rescue
WELLS COUNTY --- LIBERTY CENTER [40.70, -85.28]				
	06/04/11 17:52 EST		0	Hail (1.00 in)
	06/04/11 17:53 EST		0	Source: Amateur Radio
MIAMI COUNTY --- PERU [40.75, -86.07]				
	06/04/11 18:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/04/11 18:26 EST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines down in and around Peru, as well as southern portions of the county.				
MIAMI COUNTY --- PERU [40.75, -86.07]				
	06/04/11 18:35 EST		0	Hail (1.00 in)
	06/04/11 18:36 EST		0	Source: Public
The public reported quarter size hail as well as estimated wind gusts of 55 to 60 mph.				
MIAMI COUNTY --- 1.1 W PERU [40.75, -86.09]				
	06/04/11 18:37 EST		0	Hail (0.75 in)
	06/04/11 18:38 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CASS COUNTY --- GALVESTON [40.58, -86.18]				
	06/04/11 18:40 EST		0	Thunderstorm Wind (EG 50 kt)
	06/04/11 18:41 EST		0	Source: Trained Spotter
A trained spotter reported numerous four inch diameter tree limbs down onto local roads.				
CASS COUNTY --- 0.5 W GALVESTON [40.58, -86.19]				
	06/04/11 19:05 EST		0	Thunderstorm Wind (EG 60 kt)
	06/04/11 19:06 EST		0	Source: Emergency Manager
Emergency management officials reported two homes had trees fall into them.				
A weak cold front and a lake breeze over northeastern Illinois, combined with very unstable conditions to promote rapid storm development from northern Illinois into portions of northern Indiana. Most of the damage was from a bowing segment and high precipitation supercell that moved across northeastern Illinois into western Indiana. Pockets of more intense wind damage occurred, with numerous reports of funnel clouds and a few gustnadoes on a few very pronounced outflow boundaries.				
WABASH COUNTY --- 1.1 W RICH VLY [40.78, -85.94], 2.7 SW RED BRIDGE [40.65, -85.93], 1.9 ESE LA FONTAINE [40.66, -85.69], 0.7 SSE NEW HOLLAND [40.77, -85.65]				
	06/10/11 07:07 EST		0	Flash Flood (due to Heavy Rain)
	06/10/11 10:30 EST		0	Source: Law Enforcement
Law enforcement officials reported water flowing over the road in several areas of the southern part of the county, including the intersection of County Road 900 South and 550 West.				
MARSHALL COUNTY --- 1.4 N TIPPECANOE [41.22, -86.12]				
	06/10/11 15:10 EST		0	Hail (1.00 in)
	06/10/11 15:11 EST		0	Source: Public
KOSCIUSKO COUNTY --- MENTONE [41.17, -86.03]				
	06/10/11 15:26 EST		0	Hail (0.88 in)
	06/10/11 15:27 EST		0	Source: Emergency Manager
HUNTINGTON COUNTY --- 4.0 ENE GOBLESVILLE [41.01, -85.45], 3.4 SE GOBLESVILLE [40.95, -85.47], 2.3 E MAHON [40.93, -85.34], 2.4 NE ROANOKE [41.00, -85.34]				
	06/10/11 17:39 EST		0	Flash Flood (due to Heavy Rain)
	06/10/11 20:30 EST		0	Source: Amateur Radio
Amateur radio operators reported water over the road in and around Roanoke, including near the intersection of Smith and Clark Streets as well as County Road 900 North.				
GRANT COUNTY --- 0.6 ENE HACKLEMAN [40.42, -85.74]				
	06/10/11 18:05 EST		0	Thunderstorm Wind (EG 55 kt)
	06/10/11 18:06 EST		0	Source: Emergency Manager
Trees and power lines were blown down near the intersection of County Road 325 West and State Route 26.				
A frontal boundary worked north into northern Indiana during the afternoon. A moderately unstable atmosphere was located south of the front with favorable freezing levels and shear. An upper level system moved through the area interacting with this boundary, providing the forcing for thunderstorm development. Some of these became severe with hail, wind damage and some reports of flooding.				
WHITE COUNTY --- 2.9 SE GARWOOD ARPT [40.85, -86.81]				
	06/20/11 07:20 EST		0	Thunderstorm Wind (EG 61 kt)
	06/20/11 07:21 EST		0	Source: Public
Numerous tree limbs were reported down in the area, mainly striking power lines. A tree was uprooted and blown down onto a home in the Bedford Bay area.				
WHITE COUNTY --- 1.3 WSW IDAVILLE [40.76, -86.65]				
	06/20/11 07:33 EST		0	Thunderstorm Wind (EG 60 kt)
	06/20/11 07:34 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Trained spotters reported several trees larger than six inches in diameter down, as well as numerous branches in and around Idaville.				
WHITE COUNTY --- 0.9 SW BURNETTSVILLE [40.76, -86.59]				
	06/20/11 07:36 EST		0	Thunderstorm Wind (EG 60 kt)
	06/20/11 07:37 EST		0	Source: Trained Spotter
Trained spotters reported a one foot diameter down with other smaller trees and tree limbs down in and around Burnettsville.				
CASS COUNTY --- 0.7 NNE LOGANSPOUT MUNI ARPT [40.73, -86.38]				
	06/20/11 07:46 EST		0	Thunderstorm Wind (EG 65 kt)
	06/20/11 07:47 EST		0	Source: Emergency Manager
Emergency management officials reported trees down, as well as snapped power poles at County Road 35 North and Burlington Avenue.				
CASS COUNTY --- 0.7 S GEORGETOWN [40.74, -86.50]				
	06/20/11 07:46 EST		0	Thunderstorm Wind (EG 60 kt)
	06/20/11 07:47 EST		0	Source: Emergency Manager
Emergency management officials reported trees down in Georgetown.				
GRANT COUNTY --- 0.5 E SHADY HILLS [40.57, -85.66]				
	06/20/11 12:18 EST		0	Hail (0.88 in)
	06/20/11 12:19 EST		0	Source: Trained Spotter
A line of strong to severe storms moving through central Indiana clipped portions of northern Indiana with locally damaging winds.				
ELKHART COUNTY --- 0.5 W ELKHART [41.68, -85.98]				
	06/21/11 17:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 17:26 EST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines down throughout the northwestern part of the county, including portion of the city of Elkhart.				
WHITLEY COUNTY --- 0.7 N COLUMBIA CITY ARPT [41.13, -85.42]				
	06/21/11 18:46 EST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 18:47 EST		0	Source: Emergency Manager
Emergency management officials reported a billboard sign was blown down, as well as a nearby tree.				
DE KALB COUNTY --- 2.3 SSW HAMILTON [41.49, -84.94]				
	06/21/11 18:51 EST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 18:52 EST		0	Source: Public
Trees were reported down at County Road 10 and State Route 427.				
WHITLEY COUNTY --- 0.5 W TRI LAKES [41.25, -85.44]				
	06/21/11 18:59 EST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 19:00 EST		0	Source: Emergency Manager
Emergency management officials reported a tree limb fell onto a power line, causing the line to break.				
LA PORTE COUNTY --- 0.7 N LA PORTE [41.61, -86.72]				
	06/21/11 19:02 CST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 19:03 CST		0	Source: Newspaper
A local newspaper reported numerous trees and tree limbs down in and around the city of La Porte. Some roads were temporarily blocked by the debris.				
KOSCIUSKO COUNTY --- 1.3 WNW WARSAW [41.24, -85.85]				
	06/21/11 19:12 EST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 19:13 EST		0	Source: NWS Employee
An off duty NWS employee reported large branches down west northwest of Warsaw.				

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
STEUBEN COUNTY --- 0.5 E MOONLIGHT BAY [41.58, -85.02]				
	06/21/11 19:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 19:26 EST		0	Source: Newspaper
A local newspaper reported trees and power lines down in and around the Pleasant Lake area.				
Low pressure was located over northwestern Iowa with a warm front well north into Michigan. The main upper level jet energy remained west of the area. The environment consisted of strong instability, with surface based CAPE in excess of 500 j/kg and low shear. Storms struggled initially with isolated reports of hail or wind damage. As the storms congealed, larger segments of storms took shape, causing more widespread wind damage.				
LAKE MICHIGAN				
NEW BUFFALO TO ST JOSEPH MI COUNTY --- 1.9 W ST. JOSEPH HARBOR [42.10, -86.52]				
	06/08/11 23:51 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	06/08/11 23:52 EST		0	Source: C-MAN Station
A 36 knot gust was recorded at the Saint Joseph, Michigan Coast Guard station as an outflow boundary came onshore.				
Unstable conditions were in place along the edge of strong ridging across the region. Steep lapse rates and moderate shear allowed thunderstorms to develop on lake breeze boundaries.				
MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- 0.9 NW MICHIGAN CITY [41.73, -86.91]				
	06/21/11 20:25 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/21/11 20:26 EST		0	Source: C-MAN Station
A 35 knot wind gust was recorded at the Michigan City Coast Guard Station (MCYI3).				
Low pressure was located over northwestern Iowa with a warm front well north into Michigan. The main upper level jet energy remained west of the area. The environment consisted of surface based CAPE in excess of 500 j/kg and low shear. Storms struggled initially with isolated reports of hail or wind damage. As the storms congealed, larger segments of storms took shape, causing more widespread wind damage.				
MICHIGAN, Extreme Southwest				
BERRIEN COUNTY --- 0.9 NE THREE OAKS [41.81, -86.59]				
	06/08/11 23:00 EST		0	Thunderstorm Wind (EG 50 kt)
	06/08/11 23:01 EST		0	Source: Law Enforcement
Local law enforcement reported scattered trees and power lines down across the county.				
BERRIEN COUNTY --- 0.9 NW COLOMA [42.19, -86.31]				
	06/08/11 23:00 EST		0	Thunderstorm Wind (EG 55 kt)
	06/08/11 23:01 EST		0	Source: Law Enforcement
Trees and power lines reported down in and around Coloma.				
CASS COUNTY --- 3.4 SSW BARRON LAKE [41.78, -86.19]				
	06/08/11 23:35 EST		0	Thunderstorm Wind (EG 50 kt)
	06/08/11 23:36 EST		0	Source: County Official
Local law enforcement reported a tree down onto power lines at the intersection of U.S. 12 and Gumwood Road.				
Unstable conditions were in place along the edge of strong ridging across the region. Steep lapse rates and moderate shear allowed thunderstorms to develop on lake breeze boundaries.				
HILLSDALE COUNTY --- 0.5 W SOMERSET [42.05, -84.38]				
	06/10/11 13:35 EST		0	Hail (0.75 in)
	06/10/11 13:36 EST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A frontal boundary worked north into northern Indiana during the afternoon. A moderately unstable atmosphere was located south of the front with favorable freezing levels and shear. An upper level system moved through the area interacting with this boundary, providing the forcing for thunderstorm development. Some of these became severe with hail, wind damage and some reports of flooding.				
(MI-Z080) BRANCH				
	06/15/11 12:55 EST		25K	Strong Wind (MAX 49 kt)
	06/15/11 13:05 EST		0	
A weakening complex of thunderstorms moved into portions of northern Indiana and southern Lower Michigan. The thunderstorms were not able to mix down the stronger winds aloft as they moved through. However, a wake low behind the complex, in the somewhat cooler air, was able to mix down winds generally in the 30 to 40 mph range. While isolated reports of tree limbs down were received, damage across portions of Branch county was a bit more widespread.				
CASS COUNTY --- 0.9 SW CASSOPOLIS [41.91, -86.01]				
	06/21/11 17:35 EST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 17:36 EST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines down at various locations throughout the county.				
ST. JOSEPH COUNTY --- CENTREVILLE [41.92, -85.53]				
	06/21/11 18:12 EST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 18:13 EST		0	Source: Law Enforcement
Law enforcement officials reported a few trees and power lines down in Centreville.				
BRANCH COUNTY --- 0.9 SW BRONSON ARPT [41.87, -85.19]				
	06/21/11 19:13 EST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 19:14 EST		0	Source: Emergency Manager
Emergency management officials reported a large branch blown down onto power lines. Both the branch and power lines landed on a vehicle. No one was injured.				
BRANCH COUNTY --- 2.5 SE BRONSON ARPT [41.86, -85.14]				
	06/21/11 19:20 EST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 19:21 EST		0	Source: Emergency Manager
Emergency management officials reported a large tree limb down on Snow Prairie Road.				
BRANCH COUNTY --- 0.5 W UNION CITY [42.07, -85.14]				
	06/21/11 19:32 EST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 19:33 EST		0	Source: Emergency Manager
Emergency management officials reported power lines down in Union City.				
HILLSDALE COUNTY --- 0.5 W HILLSDALE [41.92, -84.63]				
	06/21/11 19:35 EST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 19:36 EST		0	Source: Emergency Manager
Emergency management officials reported trees and power lines down in and around Hillsdale.				
BRANCH COUNTY --- 0.5 W SHERWOOD [42.00, -85.24]				
	06/21/11 19:41 EST		0	Thunderstorm Wind (EG 55 kt)
	06/21/11 19:42 EST		0	Source: Emergency Manager
Emergency management officials reported a tree fell onto power lines in Sherwood.				
BRANCH COUNTY --- 1.4 S UNION CITY [42.05, -85.13]				
	06/21/11 19:47 EST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 19:48 EST		0	Source: Emergency Manager
A tree was blown down across Adolph Road near Clay Road, just south of Union City.				

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Low pressure was located over northwestern Iowa with a warm front well north into Michigan. The main upper level jet energy remained west of the area. The environment consisted of strong instability, with surface based CAPE in excess of 500 j/kg and low shear. Storms struggled initially with isolated reports of hail or wind damage. As the storms congealed, larger segments of storms took shape, causing more widespread wind damage.

OHIO, Northwest

ALLEN COUNTY --- 0.9 SW LIMA [40.74, -84.11]

06/04/11 16:45 EST	0	Thunderstorm Wind (EG 55 kt)
06/04/11 16:46 EST	0	Source: Law Enforcement

Law enforcement officials reported trees and power lines down on the east side of Lima.

ALLEN COUNTY --- 0.9 NE LAFAYETTE [40.76, -83.94]

06/04/11 17:45 EST	0	Thunderstorm Wind (EG 55 kt)
06/04/11 17:46 EST	0	Source: Emergency Manager

Emergency management officials reported trees and power lines down.

ALLEN COUNTY --- 3.0 NW LAFAYETTE [40.78, -83.99]

06/04/11 17:45 EST	0	Hail (1.00 in)
06/04/11 17:46 EST	0	Source: Emergency Manager

Emergency management officials reported hail slightly larger than one inch at the intersection of Cool and Sandusky Roads.

A weak cold front and a lake breeze over northeastern Illinois, combined with very unstable conditions to promote rapid storm development from northern Illinois into portions of northern Indiana. Most of the damage was from a bowing segment and high precipitation supercell that moved across northeastern Illinois into western Indiana. Pockets of more intense wind damage occurred, with numerous reports of funnel clouds and a few gustnadoes on a few very pronounced outflow boundaries.

PUTNAM COUNTY --- 1.3 WNW FT JENNINGS [40.91, -84.30]

06/10/11 17:46 EST	0	Thunderstorm Wind (EG 55 kt)
06/10/11 17:47 EST	0	Source: Law Enforcement

Law enforcement officials reported tree and tree limbs down near Fort Jennings.

A frontal boundary worked north into northern Indiana during the afternoon. A moderately unstable atmosphere was located south of the front with favorable freezing levels and shear. An upper level system moved through the area interacting with this boundary, providing the forcing for thunderstorm development. Some of these became severe with hail, wind damage and some reports of flooding.

HENRY COUNTY --- 1.1 NE RIDGEVILLE CORNERS [41.44, -84.24], 3.6 W NAOMI [41.47, -84.20], 2.1 WNW GERALD [41.46, -84.17], 2.3 S GERALD [41.42, -84.12], 2.5 W NAPOLEON [41.39, -84.18]

06/19/11 17:10 EST	0	Flash Flood (due to Heavy Rain)
06/19/11 22:15 EST	0	Source: Law Enforcement

Nearly three inches of rain fell within a one hour period across portions of Henry county, mainly northwest of Napoleon. Garrett Creek rapidly rose and went over its banks, resulting in the closure of an area near the intersection of County Road T and County Road 18.

A warm front was moving into northwestern Ohio during the afternoon and evening hours. Isolated thunderstorms developed, producing torrential rainfall. This combine with very slow movement caused flash flooding across portions of Henry county.

ALLEN COUNTY --- 1.7 ENE DELPHOS [40.84, -84.30]

06/21/11 17:27 EST	0	Hail (0.88 in)
06/21/11 17:28 EST	0	Source: Trained Spotter

A trained spotter reported hail ranging from pea to nickle size.

ALLEN COUNTY --- 0.9 NW DELPHOS [40.84, -84.34]

06/21/11 17:28 EST	0	Thunderstorm Wind (MG 54 kt)
06/21/11 17:29 EST	0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management officials reported trees down as well as 15 to 20 power poles in the city of Delphos. A 62 mph wind gust was recorded in Delphos.				

WILLIAMS COUNTY --- BRYAN [41.47, -84.55]

06/21/11 19:12 EST	0	Thunderstorm Wind (EG 55 kt)
06/21/11 19:13 EST	0	Source: Emergency Manager

Emergency management officials reported power lines and poles down in the city of Bryan, with power out across the city.

Low pressure was located over northwestern Iowa with a warm front well north into Michigan. The main upper level jet energy remained west of the area. The environment consisted of strong instability, with surface based CAPE in excess of 500 j/kg and low shear. Storms struggled initially with isolated reports of hail or wind damage. As the storms congealed, larger segments of storms took shape, causing more widespread wind damage.

VAN WERT COUNTY --- 0.3 ENE OHIO CITY [40.77, -84.62]

06/22/11 16:08 EST	0	Thunderstorm Wind (EG 55 kt)
06/22/11 16:09 EST	0	Source: Emergency Manager

Emergency management officials reported a healthy tree with a diameter of 12 to 18 inches blown down by strong winds.

Low pressure drifted slowly east out of the eastern Plains into the area. A cold front swept in during the afternoon and evening. Instability increased ahead of the front, but was hampered by extensive cloud cover for much of the day. Pockets of heating allowed for a few storms to develop and become briefly severe.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
LA PORTE COUNTY --- 1.2 NE DOOR VLG [41.59, -86.75]				
	07/02/11 14:45 CST		0	Hail (1.00 in)
	07/02/11 14:46 CST		0	Source: Trained Spotter
LA PORTE COUNTY --- 0.9 NW LA PORTE ARPT [41.59, -86.74]				
	07/02/11 14:48 CST		0	Hail (1.00 in)
	07/02/11 14:49 CST		0	Source: CoCoRaHS
LA PORTE COUNTY --- 1.2 SW MILL CREEK [41.57, -86.55]				
	07/02/11 15:20 CST		0	Hail (2.00 in)
	07/02/11 15:21 CST		0	Source: Broadcast Media
Local broadcast media forwarded pictures of hail up to two and one quarter inches in diameter in the Mill Creek area.				
LA PORTE COUNTY --- 2.2 ENE KINGSBURY [41.53, -86.66]				
	07/02/11 15:29 CST		0	Hail (1.00 in)
	07/02/11 15:30 CST		0	Source: Trained Spotter
STARKE COUNTY --- 0.5 E SAN PIERRE [41.20, -86.89]				
	07/02/11 16:01 CST		0	Hail (1.00 in)
	07/02/11 16:02 CST		0	Source: Public
STARKE COUNTY --- NORTH JUDSON [41.22, -86.78]				
	07/02/11 16:12 CST		0	Thunderstorm Wind (EG 50 kt)
	07/02/11 16:13 CST		0	Source: Public
A large tree limb was blown down by the strong winds. A portion of the limb fell onto and destroyed patio furniture.				
LAGRANGE COUNTY --- 0.7 S LAGRANGE [41.64, -85.42]				
	07/02/11 17:30 EST		0	Hail (2.00 in)
	07/02/11 17:31 EST		0	Source: Public
KOSCIUSKO COUNTY --- 1.5 NNE OSWEGO [41.34, -85.77]				
	07/02/11 17:40 EST		0	Thunderstorm Wind (EG 55 kt)
	07/02/11 17:41 EST		0	Source: NWS Employee
An off duty NWS employee reproted a healthy 12 to 18 inch diameter tree down at the intersection of County Roads 400 East and 750 North.				
WABASH COUNTY --- NORTH MANCHESTER [41.00, -85.77]				
	07/02/11 18:10 EST		0	Thunderstorm Wind (EG 60 kt)
	07/02/11 18:11 EST		0	Source: Emergency Manager
Emergency management officials reported trees and power lines down throughout North Manchester. Locations included County Road 300 West at State Route 114, County Road 625 West near State Route 16 and along College Avenue.				
WHITLEY COUNTY --- 0.9 SW COLUMBIA CITY [41.16, -85.49]				
	07/02/11 18:15 EST		0	Thunderstorm Wind (EG 55 kt)
	07/02/11 18:16 EST		0	Source: Emergency Manager
Emergency management officials reported a tree across the road on Ashford Drive, as well as power lines down on East Linker Street. Other reports of trees down were received in the southwestern part of the county. A few limbs fell onto vehicles, but no injuries occurred.				
WHITE COUNTY --- 3.0 ENE GARWOOD ARPT [40.90, -86.80]				
	07/02/11 18:35 EST		0	Hail (0.75 in)
	07/02/11 18:36 EST		0	Source: Trained Spotter
FULTON COUNTY --- 0.9 NW KEWANNA [41.03, -86.41]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/02/11 18:36 EST		0	Thunderstorm Wind (EG 60 kt)
	07/02/11 18:37 EST		0	Source: Law Enforcement
Law enforcement officials reported a tree, as well as power lines down on State Route 17, north of Kewanna.				
<hr/>				
WHITLEY COUNTY --- LARWILL [41.18, -85.63]				
	07/02/11 18:37 EST		0	Thunderstorm Wind (EG 55 kt)
	07/02/11 18:38 EST		0	Source: Emergency Manager
Emergency management officials reported a tree down onto County Road 625 North.				
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CASS COUNTY --- 1.7 WSW TWELVE MILE [40.86, -86.25]				
	07/02/11 19:10 EST		0	Thunderstorm Wind (EG 55 kt)
	07/02/11 19:11 EST		0	Source: Emergency Manager
Emergency management officials reported numerous trees down southwest of Twelve Mile.				
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FULTON COUNTY --- 0.9 NW KEWANNA [41.03, -86.41]				
	07/02/11 19:15 EST		0	Thunderstorm Wind (EG 60 kt)
	07/02/11 19:16 EST		0	Source: Law Enforcement
Law enforcement officials reported a tree as well as power lines down on State Route 17, north of Kewanna.				
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WHITE COUNTY --- 5.6 NW WOLCOTT [40.83, -87.10], 7.6 W BADGER GROVE [40.57, -87.09], 2.5 S SPRINGBORO [40.56, -86.78], 1.0 N WHITE CO ARPT [40.73, -86.77], 2.5 S BURNETTSVILLE [40.73, -86.58], 3.2 E HEADLEE [40.90, -86.59]				
	07/02/11 22:00 EST		0	Flash Flood (due to Heavy Rain)
	07/03/11 01:00 EST		0	Source: Law Enforcement
Local law enforcement officials reported numerous roads covered in water, some with several inches of flowing water. Radar estimated that two to four inches of rain fell, mainly in a few hour period. High water lingered through much of the night, causing some travel issues.				
Two lifting mechanisms, a cold front and a lake breeze, interacted with an extremely unstable, but poorly sheared environment, to allow for thunderstorm development. Initially discrete cells posed a hail threat, but eventually congealed into several bowing segments.				
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LA PORTE COUNTY --- 0.7 S MICHIGAN CITY [41.71, -86.90]				
	07/11/11 07:55 CST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 07:56 CST		0	Source: Trained Spotter
Trained spotters reported numerous trees and power lines down in Michigan City.				
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LA PORTE COUNTY --- 0.7 WNW LA PORTE [41.60, -86.73]				
	07/11/11 08:05 CST		15K	Lightning
	07/11/11 08:06 CST		0	Source: Newspaper
The residents of a home on K street witnessed a lightning bolt strike a tree in their yard. The tree subsequently fell onto their home, damaging roughly a third of the roof. Damage is estimated at \$15,000.				
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LA PORTE COUNTY --- 0.7 N LA PORTE [41.61, -86.72]				
	07/11/11 08:10 CST		0	Thunderstorm Wind (EG 61 kt)
	07/11/11 08:11 CST		0	Source: Trained Spotter
A trained spotter estimated 70 mph winds with the line of storms.				
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ST. JOSEPH COUNTY --- 2.6 WNW LYDICK [41.71, -86.43]				
	07/11/11 09:20 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:21 EST		0	Source: Trained Spotter
A trained spotter reported a 12 inch diameter oak tree snapped on US 20, near Tamarack Rd.				
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ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	07/11/11 09:22 EST		0	Thunderstorm Wind (MG 57 kt)
	07/11/11 09:23 EST		0	Source: ASOS

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The South Bend Regional Airport ASOS recorded a 66 mph wind gust.				
ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	07/11/11 09:23 EST		0	Thunderstorm Wind (MG 59 kt)
	07/11/11 09:24 EST		0	Source: Broadcast Media
A local radio station recorded a peak wind gust of 68 mph.				
ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	07/11/11 09:24 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:25 EST		0	Source: County Official
Law enforcement officials reported trees and power lines down across the county.				
ST. JOSEPH COUNTY --- 0.9 NNE TWIN BRANCH JCT [41.68, -86.12]				
	07/11/11 09:24 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:25 EST	1	0	Source: Newspaper
A tree limb fell onto a man at the AM General Hummer plant in Mishawaka. He was transported to a local hospital for treatment.				
ST. JOSEPH COUNTY --- 0.8 W INDIAN VLG [41.72, -86.24]				
	07/11/11 09:25 EST		15K	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:26 EST		0	Source: Newspaper
A local newspaper reported the top of a large oak tree was snapped off, falling onto a home. Damage to the roof was estimated at \$15,000.				
ST. JOSEPH COUNTY --- 1.7 ESE MAPLE LANE [41.69, -86.20]				
	07/11/11 09:25 EST		0	Thunderstorm Wind (EG 65 kt)
	07/11/11 09:26 EST		0	Source: Trained Spotter
A trained spotter estimated wind gusts to 75 mph.				
ST. JOSEPH COUNTY --- 0.9 SE MISHAWAKA [41.66, -86.16]				
	07/11/11 09:33 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:34 EST		0	Source: Trained Spotter
Trained spotters reported a few trees as well as several tree limbs down throughout the city.				
ST. JOSEPH COUNTY --- 2.1 S TWIN BRANCH JCT [41.64, -86.13]				
	07/11/11 09:33 EST		0	Thunderstorm Wind (EG 70 kt)
	07/11/11 09:34 EST		0	Source: Trained Spotter
A trained spotter estimated wind gusts of around 80 mph.				
ST. JOSEPH COUNTY --- 0.5 W GLENWOOD [41.67, -86.08]				
	07/11/11 09:34 EST		0	Thunderstorm Wind (EG 55 kt)
	07/11/11 09:35 EST		0	Source: Trained Spotter
A trained spotter reported a one foot diameter branch blown down.				
ST. JOSEPH COUNTY --- 0.5 W ST JOSEPH RES [41.68, -86.11]				
	07/11/11 09:34 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:35 EST		0	Source: Trained Spotter
A trained spotter reported several six-inch diameter branches down.				
ELKHART COUNTY --- 1.7 WSW MIDDLEBURY [41.67, -85.73]				
	07/11/11 09:53 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:54 EST		0	Source: Amateur Radio
Amateur radio operators reported a tree blown down onto US 20, near County Road 16.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ELKHART COUNTY --- MILLERSBURG [41.52, -85.70]				
	07/11/11 09:55 EST		0	Thunderstorm Wind (EG 56 kt)
	07/11/11 09:56 EST		0	Source: NWS Employee
An off duty NWS employee estimated winds gusts of 60 to 65 mph.				
ELKHART COUNTY --- 0.5 E SIMONTON LAKE [41.73, -85.97]				
	07/11/11 10:00 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:01 EST		0	Source: Public
Reports were received from the public of several eight inch or larger diameter tree branches down in the area of Menards on Windsor Avenue.				
ELKHART COUNTY --- 2.6 E SIMONTON LAKE [41.73, -85.93]				
	07/11/11 10:01 EST		0	Thunderstorm Wind (EG 55 kt)
	07/11/11 10:02 EST		0	Source: Public
Tree branches were reported blown down by the public south of the Indiana Toll Road, between County Roads 15 and 19.				
LAGRANGE COUNTY --- 0.4 NNW HOWE [41.73, -85.42]				
	07/11/11 10:01 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:02 EST		0	Source: Trained Spotter
Trained spotters reported multiple trees, up to two feet in diameter, snapped at the Howe Military Academy.				
KOSCIUSKO COUNTY --- 0.7 S SYRACUSE [41.41, -85.75]				
	07/11/11 10:06 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:07 EST		0	Source: Trained Spotter
Trained spotters reported multiple telephone poles down.				
NOBLE COUNTY --- ALBION [41.40, -85.42]				
	07/11/11 10:25 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:26 EST		0	Source: Emergency Manager
Emergency management officials received reports of trees and power lines down blocking several roads across the county.				
STEBEN COUNTY --- 1.5 SW HUDSON [41.51, -85.10]				
	07/11/11 10:29 EST		0	Thunderstorm Wind (EG 65 kt)
	07/11/11 10:30 EST		0	Source: Newspaper
A local newspaper reported a concrete stave silo was blown down, all in one piece. The Silo did not land on any objects on the farm.				
DE KALB COUNTY --- 0.5 W AUBURN [41.37, -85.06]				
	07/11/11 10:30 EST		0	Thunderstorm Wind (EG 52 kt)
	07/11/11 10:31 EST		0	Source: Amateur Radio
Amateur radio operators estimated winds of 50 to 60 mph with several four to five inch tree limbs down.				
ELKHART COUNTY --- 3.6 NE ELKHART [41.71, -85.91]				
	07/11/11 10:30 EST		15K	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:31 EST		0	Source: Newspaper
A local newspaper reported a large tree fell into the center of a home in Penton Court. Damage is estimated at \$15,000.				
NOBLE COUNTY --- 1.7 E ROME CITY [41.50, -85.35]				
	07/11/11 10:30 EST		0	Thunderstorm Wind (EG 65 kt)
	07/11/11 10:30 EST		0	Source: Newspaper
A local newspaper reported that six mature trees were blown down at a residence about 4 miles east of Rome City. One tree fell onto a driveway, barely missing a parked car.				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NOBLE COUNTY --- 2.7 ESE WAKEFIELD VLG [41.45, -85.20]				
	07/11/11 10:30 EST		75K	Thunderstorm Wind (EG 65 kt)
	07/11/11 10:31 EST		0	Source: Newspaper
A local newspaper reported that three 80 to 100 foot tall pine trees were snapped, falling onto a house, garage and shed at a residence east of Kendallville. No one was injured with damage estimated at \$75,000.				
STEUBEN COUNTY --- ANGOLA [41.63, -85.00]				
	07/11/11 10:30 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:31 EST		0	Source: Emergency Manager
Emergency management officials reported trees and power lines down across the county, several blocking roads.				
DE KALB COUNTY --- 2.7 WNW SUMMIT [41.53, -85.07]				
	07/11/11 10:31 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:32 EST		0	Source: Law Enforcement
State police officials reported a semi trailer was rolled over on Interstate 69, near mile marker 139. No injuries were reported, but northbound traffic was backed up for several hours.				
DE KALB COUNTY --- 0.9 NW AUBURN [41.38, -85.06]				
	07/11/11 10:33 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:34 EST		0	Source: Law Enforcement
Indiana State Police officials reported a semi-trailer rolled over on Interstate 69, at mile marker 129. No injuries were reported, but northbound lanes were closed for several hours.				
WHITLEY COUNTY --- 0.9 SW COLUMBIA CITY [41.16, -85.49]				
	07/11/11 10:33 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/11 10:34 EST		0	Source: Emergency Manager
Emergency management officials reported a three inch diameter tree down.				
STEUBEN COUNTY --- 1.5 SSW FREMONT [41.71, -84.94]				
	07/11/11 10:35 EST		0	Thunderstorm Wind (EG 50 kt)
	07/11/11 10:36 EST		0	Source: Amateur Radio
Amateur radio operators reported the top half of a five inch diameter tree down blocking the road near State Route 827 and County Road 300 East.				
ALLEN COUNTY --- WAYNE DALE [41.02, -85.18]				
	07/11/11 10:51 EST		0	Thunderstorm Wind (MG 58 kt)
	07/11/11 10:52 EST		0	Source: Trained Spotter
Trained spotters reported minor structural damage, as well as several tree limbs and branches down in Waynedale. A wind gust to 67 mph was recorded in the city.				
HUNTINGTON COUNTY --- 1.0 NW HUNTINGTON [40.89, -85.49]				
	07/11/11 10:55 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:56 EST		0	Source: Emergency Manager
Emergency management officials reported a tree down onto power lines , as well onto the roof of a house at Fruit and Wesley Streets.				
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	07/11/11 11:00 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 11:01 EST		0	Source: Trained Spotter
Trained spotters reported trees and power lines down across the city of Fort Wayne.				
ALLEN COUNTY --- ROYAL OAKS [41.10, -85.08]				
	07/11/11 11:01 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 11:02 EST		0	Source: Amateur Radio

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Amateur radio operators reported a tree down onto a house.				
ELKHART COUNTY --- 1.7 S ELKHART [41.66, -85.97]				
	07/11/11 15:00 EST		10K	Thunderstorm Wind (EG 60 kt)
	07/11/11 15:01 EST		0	Source: Mesonet
A local newspaper reported that at least 10 trees were snapped or uprooted at a residence. One of these fell onto a home causing some roof damage, estimated at \$10,000.				
ELKHART COUNTY --- 1.9 ESE SIMONTON LAKE [41.72, -85.95]				
	07/11/11 15:02 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 15:03 EST		0	Source: Newspaper
A local newspaper reported that several trees and tree limbs were down in front of the Osolo Township Fire Department.				
Bow echo complex moved from Illinois and Wisconsin into northern Indiana. In addition, a separate area of thunderstorms developed ahead of the main line. Strong instability and a continued feed of moisture fed the line as it raced east at speeds of up to 60 mph.				
(IN-Z004) ST. JOSEPH				
	07/21/11 01:30 EST		0	Excessive Heat
	07/21/11 01:30 EST		0	
An extended period of hot and humid conditions occurred over the region with afternoon highs in the mid to upper 90s and overnight lows in the mid 70s to around 80.				
ST. JOSEPH COUNTY --- WALKERTON [41.47, -86.48]				
	07/21/11 16:39 EST		0	Thunderstorm Wind (EG 50 kt)
	07/21/11 16:40 EST		0	Source: Law Enforcement
Law Enforcement officials reported trees and power lines down in town from strong winds.				
A narrow line of thunderstorms developed on a cold front moving across Lake Michigan with a lake breeze in place across far northern Indiana. The storms were fed by over 4000 j/kg of surface based CAPE. The storms were poorly organized but with boundary interaction one storm produced locally damaging winds in Walkerton.				
STEBEN COUNTY --- 0.7 N ANGOLA [41.64, -85.00]				
	07/22/11 12:00 EST		0	Thunderstorm Wind (EG 55 kt)
	07/22/11 12:01 EST		0	Source: Trained Spotter
Trained spotters reported numerous trees and tree limbs down in and around Angola.				
STEBEN COUNTY --- ANGOLA [41.63, -85.00]				
	07/22/11 12:05 EST		0	Thunderstorm Wind (EG 55 kt)
	07/22/11 12:06 EST		0	Source: Emergency Manager
Emergency management officials reported at least 40 trees down across the county. Approximately 1000 acres of corn was blown down.				
KOSCIUSKO COUNTY --- 1.6 NW WINONA LAKE [41.23, -85.87], 1.9 E WARSAW [41.23, -85.79]				
	07/22/11 13:05 EST		0.50M	Thunderstorm Wind (EG 78 kt)
	07/22/11 13:10 EST		0	Source: NWS Storm Survey
A survey of widespread damage, as well as possible tornado sightings, was performed by NWS officials. A two to three mile wide area of damage was found across the southern part of Warsaw, into much of the Village of Winona Lake. Eyewitness and video footage indicates that a funnel had formed on the leading edge of the storm just prior to the wind damage. No indications of the funnel touching down could be located. However, damage patterns and video footage indicated a downburst occurred. Winds were not fully able to reach the ground, with damage confined to numerous trees being snapped at higher levels or uprooted. Power poles and lines were also knocked down, mainly due to falling trees and tree limbs. Reports of trees falling onto several homes and cars were also received with no injuries noted. Some roof damage was observed in a few locations, including Warsaw Foundry, TTP, Inc. and Whimet, Inc. Winds were estimated between 85 and 90 mph. No specific damage figures were available, but estimates of at least \$500,000 are being entered.				
KOSCIUSKO COUNTY --- 2.8 N NORTH WEBSTER [41.36, -85.70]				
	07/22/11 13:08 EST		0	Thunderstorm Wind (EG 52 kt)
	07/22/11 13:09 EST		0	Source: Official NWS Observations

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
On duty personnel at the NWS office in North Webster estimated 60 mph winds.				

WHITLEY COUNTY --- 0.5 W SOUTH WHITLEY [41.08, -85.63]				
	07/22/11 13:15 EST		0	Thunderstorm Wind (EG 52 kt)
	07/22/11 13:16 EST		0	Source: Emergency Manager

Emergency management officials estimated wind gusts to 60 mph; also reported numerous small to medium size branches down.

WHITLEY COUNTY --- 1.1 SSW SOUTH WHITLEY [41.06, -85.63]				
	07/22/11 13:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/22/11 13:16 EST		0	Source: Emergency Manager

Emergency management officials reported power lines down across State Route 105, south of South Whitley.

WHITLEY COUNTY --- 2.1 NE PEABODY [41.10, -85.49]				
	07/22/11 13:27 EST		0	Thunderstorm Wind (EG 52 kt)
	07/22/11 13:28 EST		0	Source: Trained Spotter

Trained spotters estimated 60 mph wind gusts with the outflow of the thunderstorms.

HUNTINGTON COUNTY --- 1.6 NW ANDREWS [40.87, -85.62]				
	07/22/11 13:30 EST		0	Thunderstorm Wind (EG 55 kt)
	07/22/11 13:31 EST		0	Source: Emergency Manager

Emergency management officials reported a tree down across State Route 105, just north of US 24.

ALLEN COUNTY --- 0.7 S GRABILL [41.21, -84.97]				
	07/22/11 13:45 EST		0	Thunderstorm Wind (EG 55 kt)
	07/22/11 13:46 EST		0	Source: Law Enforcement

Law enforcement officials reported trees and power lines down across the northern part of Allen County.

A line of thunderstorms developed along a cold front and moved into northern Indiana, where extreme instability and moderate shear were in place. As mergers of storms began, damaging winds and large hail was reported, with the reports then transitioning to mainly damaging winds as the storms evolved and cold pools established.

KOSCIUSKO COUNTY --- 2.7 S PIERCETON [41.16, -85.71]				
	07/23/11 15:05 EST		0	Thunderstorm Wind (EG 50 kt)
	07/23/11 15:06 EST		0	Source: Law Enforcement

Law enforcement officials reported a few trees blown in the area of State Route 13 and East County Road 500 South.

WHITLEY COUNTY --- 0.2 SE LARWILL [41.18, -85.63]				
	07/23/11 15:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/23/11 15:15 EST		0	Source: Emergency Manager

Emergency management officials reported a large tree across the road in the 200 block of West Main Street.

WHITLEY COUNTY --- 0.6 ESE LARWILL [41.18, -85.62]				
	07/23/11 15:14 EST		10K	Thunderstorm Wind (EG 55 kt)
	07/23/11 15:15 EST		0	Source: Trained Spotter

A trained spotter reported the roof torn off a barn. A tree was also snapped at the base.

WHITLEY COUNTY --- 2.5 ESE TRI LAKES [41.24, -85.39]				
	07/23/11 15:32 EST		1K	Thunderstorm Wind (EG 55 kt)
	07/23/11 15:33 EST		0	Source: Emergency Manager

Emergency management officials reported roughly two dozen trees either snapped or uprooted in a mobile home park west of Blue Lake. One tree fell onto a home, causing minor damage.

A weak frontal boundary extended across portions of northern Indiana. Moderate instability, but weak shear allowed for thunderstorms to develop. Isolated damaging wind gusts occurred across Kosciusko and Whitley counties.

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WELLS COUNTY --- 2.5 SSE MC NATTS [40.59, -85.39], 3.4 S MT ZION [40.60, -85.34], 1.9 ENE MC NATTS [40.63, -85.37], 1.3 SW MC NATTS [40.61, -85.42]	07/24/11 03:11 EST		0	Flash Flood (due to Heavy Rain)
	07/24/11 06:30 EST		0	Source: Law Enforcement

Law enforcement officials reported water flowing over State Route 3, just north of the Wells and Blackford county line.

A moist, unstable atmosphere was in place, with only limited low and mid level flow. This resulted in slow moving, very efficient rain producing thunderstorms. Three to five inches of rain fell across portions of Grant, Blackford, Jay and Wells counties with some flash flooding reported near the Blackford and Wells county line.

LAKE MICHIGAN

NEW BUFFALO TO ST JOSEPH MI COUNTY --- 2.6 NW WARREN DUNES ST PRK [41.98, -86.62]				
	07/11/11 09:10 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	07/11/11 09:11 EST		0	Source: Buoy

A 45 knot gust was recorded at Buoy 45026, located near Cook Nuclear Plant.

A well-defined bow echo races east out of Wisconsin and Illinois across southern Lake Michigan. Strong winds affect the lake shore areas before moving inland.

NEW BUFFALO TO ST JOSEPH MI COUNTY --- 2.9 NW WARREN DUNES ST PRK [41.98, -86.61]				
	07/28/11 00:30 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/28/11 00:31 EST		0	Source: Buoy

A 36 knot wind gust was recorded at Buoy 45026, located off of Cook Nuclear Plant.

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- 1.5 NNW MICHIGAN CITY [41.74, -86.91]				
	07/28/11 00:35 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/28/11 00:36 EST		0	Source: C-MAN Station

A 36 knot wind gust was recorded at the Michigan City GLERL site.

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- 1.5 NNW MICHIGAN CITY [41.74, -86.91]				
	07/28/11 01:45 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/28/11 01:46 EST		0	Source: C-MAN Station

A 38 knot wind gust was recorded at the Michigan City GLERL site.

A cluster of strong to severe thunderstorm moved out of Illinois into southern Lake Michigan. As they moved onshore, they quickly began to weaken as they outran the best moisture and instability residing to the west.

MICHIGAN, Extreme Southwest

CASS COUNTY --- 0.9 SW CASSOPOLIS [41.91, -86.01]				
	07/02/11 16:37 EST		0	Hail (1.00 in)
	07/02/11 16:38 EST		0	Source: Law Enforcement
ST. JOSEPH COUNTY --- 1.5 SSW WHITE PIGEON [41.78, -85.64]				
	07/02/11 17:11 EST		0	Hail (1.00 in)
	07/02/11 17:12 EST		0	Source: Amateur Radio

Two lifting mechanisms, a cold front and a lake breeze, interacted with an extremely unstable, but poorly sheared environment, to allow for thunderstorm development. The highest instability resided south into Indiana and Ohio, limiting the coverage and intensity of the storms across far southern Lower Michigan. Two reports of quarter size hail were received.

BERRIEN COUNTY --- 0.9 NW (BEH)ROSS ARPT BNTN [42.14, -86.44]				
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Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/11 09:10 EST		0	Thunderstorm Wind (MG 53 kt)
	07/11/11 09:11 EST		0	Source: ASOS
The ASOS at the Benton Harbor airport recorded a 53 knot (61 mph) wind gust.				
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BERRIEN COUNTY --- 0.5 W BERRIEN SPGS [41.95, -86.34]				
	07/11/11 09:14 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:15 EST		0	Source: Public
Trees and power lines were reported blown down by the public in the Berrien Springs area.				
<hr/>				
BERRIEN COUNTY --- 0.5 W MILBURG [42.12, -86.34]				
	07/11/11 09:20 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:21 EST		0	Source: Trained Spotter
A trained spotter reported trees and tree limbs blown down in and around Millburg.				
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BERRIEN COUNTY --- 0.7 N ST JOSEPH [42.11, -86.48]				
	07/11/11 09:25 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:26 EST		0	Source: Trained Spotter
A trained spotter reported a 12 inch diameter tree blown down blocking portions of the 400 block of Ridgeway.				
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CASS COUNTY --- 4.2 S BARRON LAKE [41.77, -86.16]				
	07/11/11 09:26 EST		0	Thunderstorm Wind (EG 56 kt)
	07/11/11 09:27 EST		0	Source: Trained Spotter
A trained spotter reported a 18 to 24 inch diameter tree down across Fir Road, just north of the Michigan/Indiana state line. The spotter estimated winds of around 65 mph.				
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CASS COUNTY --- 4.2 S JONES [41.84, -85.80]				
	07/11/11 09:47 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:48 EST		0	Source: Trained Spotter
Trained spotters reported multiple trees down two miles north of US 12, on Highway 40.				
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ST. JOSEPH COUNTY --- 0.7 WSW CONSTANTINE [41.83, -85.68]				
	07/11/11 09:52 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:53 EST		0	Source: Trained Spotter
Trained spotters reported trees and tree limbs down. A eight inch diameter branch was blocking Riverside Drive, just west of Blue School Road in Constantine.				
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ST. JOSEPH COUNTY --- 0.7 N THREE RIVERS [41.94, -85.63]				
	07/11/11 09:55 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 09:56 EST		0	Source: Fire Department/Rescue
Local fire officials reported numerous trees and power lines down in and around Three Rivers.				
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BERRIEN COUNTY --- 1.0 E EDGEWATER [42.12, -86.45]				
	07/11/11 10:00 EST		15K	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:01 EST		0	Source: Trained Spotter
A trained spotter reported two trees down, as well as roof damage to a commercial building. Damage is estimated at \$15,000.				
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ST. JOSEPH COUNTY --- 0.5 NNE CENTREVILLE [41.93, -85.53]				
	07/11/11 10:01 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:02 EST		0	Source: Emergency Manager
Emergency management officials reported power lines and trees down onto the roadway, near Nottawwa and Ann Streets.				
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ST. JOSEPH COUNTY --- 1.9 SSE COLON [41.92, -85.31]				

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/11 10:08 EST		0	Thunderstorm Wind (EG 60 kt)
	07/11/11 10:09 EST		0	Source: Fire Department/Rescue

Local fire officials reported multiple trees and power lines down along Custer and Decker Roads.

ST. JOSEPH COUNTY --- STURGIS [41.80, -85.42]

07/11/11 10:08 EST	0	Thunderstorm Wind (EG 60 kt)
07/11/11 10:09 EST	0	Source: Emergency Manager

Emergency management officials reported trees and power lines down, mainly on the east side of Sturgis.

BRANCH COUNTY --- 1.5 W UNION CITY [42.07, -85.16]

07/11/11 10:15 EST	0	Thunderstorm Wind (EG 60 kt)
07/11/11 10:16 EST	0	Source: Emergency Manager

Emergency management officials reported damage to a barn and a billboard being blwon down.

HILLSDALE COUNTY --- 0.5 W HILLSDALE [41.92, -84.63]

07/11/11 10:45 EST	0	Thunderstorm Wind (EG 60 kt)
07/11/11 10:46 EST	0	Source: Emergency Manager

Emergency management officials reported trees down across the county.

Bow echo complex moved from Illinois and Wisconsin into Southern Lower Michigan. In addition, a separate area of thunderstorms developed ahead of the main line. Strong instability and a continued feed of moisture fed the line as it raced east at speeds of up to 60 mph.

OHIO, Northwest

PAULDING COUNTY --- 0.9 NW PAULDING [41.14, -84.58]

07/11/11 11:06 EST	0	Thunderstorm Wind (MG 62 kt)
07/11/11 11:07 EST	0	Source: Emergency Manager

Emergency management officials recorded a 71 mph wind gust at the Paulding County Emergency Management office.

PAULDING COUNTY --- 0.5 W ANTWERP [41.18, -84.74]

07/11/11 11:10 EST	0	Thunderstorm Wind (EG 55 kt)
07/11/11 11:11 EST	0	Source: Emergency Manager

Emergency management officials reported a tree fell onto a house at the intersection of River and Madison Streets. Numerous other trees and tree limbs were reported down in and around Antwerp.

HENRY COUNTY --- 2.8 S NAPOLEON [41.34, -84.12]

07/11/11 11:18 EST	0	Thunderstorm Wind (EG 52 kt)
07/11/11 11:19 EST	0	Source: Trained Spotter

Trained spotters estimated wind gusts of 55 to 65 mph.

PUTNAM COUNTY --- 1.3 WNW FT JENNINGS [40.91, -84.30]

07/11/11 11:43 EST	0	Thunderstorm Wind (EG 60 kt)
07/11/11 11:44 EST	0	Source: Law Enforcement

Law enforcement officials reported a power pole blown down in Fort Jennings.

PUTNAM COUNTY --- 0.5 W COLUMBUS GROVE [40.92, -84.06]

07/11/11 11:47 EST	0	Thunderstorm Wind (EG 60 kt)
07/11/11 11:48 EST	0	Source: Law Enforcement

Law enforcement officials reported a few larger branches down as well as one tree in Columbus Grove.

ALLEN COUNTY --- 0.7 N ALLEN CO ARPT [40.71, -84.03]

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/11 11:57 EST		0	Thunderstorm Wind (MG 54 kt)
	07/11/11 11:58 EST		0	Source: ASOS

The Lima ASOS recorded a 62 mph wind gust as the line of storms moved through.

ALLEN COUNTY --- 0.9 SW LIMA [40.74, -84.11]

07/11/11 12:00 EST	0	Thunderstorm Wind (MG 52 kt)
07/11/11 12:01 EST	0	Source: Amateur Radio

Amateur radio operators reported several tree branches down.

Bow echo complex moved from Illinois and Wisconsin into northwestern Ohio. Strong instability and a continued feed of moisture fed the line as it raced east at speeds of up to 60 mph.

HENRY COUNTY --- 0.7 N NAPOLEON [41.39, -84.13]

07/18/11 20:00 EST	15K	Thunderstorm Wind (EG 55 kt)
07/18/11 20:01 EST	0	Source: Emergency Manager

Emergency management officials reported uprooted trees and power lines down in and around Napoleon. A work trailer flipped over and was blown onto Scott Street. A tree fell onto a house on Oakwood Avenue.

HENRY COUNTY --- 1.7 NW NAPOLEON HENRY CO AR [41.38, -84.10]

07/18/11 20:01 EST	0	Thunderstorm Wind (EG 55 kt)
07/18/11 20:02 EST	0	Source: Emergency Manager

Emergency management officials reported nine utility poles snapped off roughly four to ten feet above the ground near County Road P and 12.

A cluster of thunderstorms moved out of southern Lower Michigan into northwestern Ohio. Entering into an area of increased instability, the thunderstorms intensified, producing damaging winds in Henry county before moving east.

HENRY COUNTY --- 1.4 S NAPOLEON [41.36, -84.13]

07/22/11 12:18 EST	0	Thunderstorm Wind (EG 61 kt)
07/22/11 12:19 EST	0	Source: Trained Spotter

A trained spotter reported large tree limbs down from wind gusts estimated around 70 mph.

FULTON COUNTY --- 0.5 W ARCHBOLD [41.52, -84.31]

07/22/11 13:30 EST	0	Thunderstorm Wind (EG 60 kt)
07/22/11 13:31 EST	0	Source: Law Enforcement

Law enforcement officials reported trees, power poles and lines down in Archbold, and several areas of southwestern Fulton County.

PAULDING COUNTY --- 1.4 N TIPTON [41.04, -84.67]

07/22/11 14:13 EST	0	Thunderstorm Wind (EG 55 kt)
07/22/11 14:14 EST	0	Source: Emergency Manager

Emergency management officials reported power lines down on County Road 71.

FULTON COUNTY --- 0.5 W PETTISVILLE [41.53, -84.23]

07/22/11 14:30 EST	0	Thunderstorm Wind (EG 60 kt)
07/22/11 14:31 EST	0	Source: Law Enforcement

Law enforcement officials reported several trees blown down.

PUTNAM COUNTY --- OTTAWA [41.02, -84.05]

07/22/11 14:57 EST	5K	Thunderstorm Wind (EG 49 kt)
07/22/11 14:58 EST	0	Source: Emergency Manager

Emergency management officials reported a tent and a temporary wall blown down at the county fair.

ALLEN COUNTY --- 1.4 S GRANDVIEW HOMES [40.70, -84.08]

07/22/11 15:04 EST	0	Thunderstorm Wind (EG 52 kt)
07/22/11 15:05 EST	0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Trained spotters estimated 60 mph wind gusts. Blowing dust reduced visibility to near zero on Interstate 75, causing the temporary stopping of traffic.				
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ALLEN COUNTY --- 0.7 N ALLEN CO ARPT [40.71, -84.03]				
	07/22/11 15:07 EST	0		Thunderstorm Wind (MG 60 kt)
	07/22/11 15:08 EST	0		Source: ASOS

The automated weather sensor at Lima airport recorded a 69 mph wind gust.

A line of strong to severe thunderstorms moved from northern Indiana into northwestern Ohio, where extreme instability and moderate shear were in place. Damaging winds accompanied several of the storms.

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
MARSHALL COUNTY --- 0.9 SW TWIN LAKES [41.29, -86.38]				
	08/02/11 23:58 EST		0	Thunderstorm Wind (EG 52 kt)
	08/02/11 23:59 EST		0	Source: Public
Reports of estimated wind gusts to 60 mph were received.				
KOSCIUSKO COUNTY --- 2.5 WNW CLAYPOOL [41.15, -85.92]				
	08/03/11 00:15 EST		0	Thunderstorm Wind (EG 50 kt)
	08/03/11 00:16 EST		0	Source: Law Enforcement
Law enforcement officials reported a tree limb down onto power lines on County Road 450 West just north of County Road 600.				
WHITE COUNTY --- 0.9 SW WOLCOTT [40.76, -87.04]				
	08/03/11 00:21 EST		0	Thunderstorm Wind (EG 50 kt)
	08/03/11 00:22 EST		0	Source: County Official
Law enforcement officials reported a tree blown down, which became tangled in power lines.				
HUNTINGTON COUNTY --- 0.7 N ANDREWS [40.86, -85.60]				
	08/03/11 00:52 EST		0	Thunderstorm Wind (EG 50 kt)
	08/03/11 00:53 EST		0	Source: Trained Spotter
Trained spotters reported a portion of a tree breaking and falling onto a car. No injuries were reported.				
A cold front moved across the region during the evening hours of the 2nd into the overnight hours of the 3rd. Extreme instability existed across western Illinois and eastern Iowa. One line of storms moved into Michigan and weakened. Additional thunderstorms developed and moved into portions of northern Indiana. The time of day as well as convective inhibition from storms to the north, kept strong to severe storms isolated.				
STARKE COUNTY --- 2.1 SSE SAN PIERRE [41.17, -86.89]				
	08/07/11 09:58 CST		0	Hail (1.75 in)
	08/07/11 09:59 CST		0	Source: Public
Golf ball size hail was reported by the public near the Starke and Pulaski County line.				
WHITE COUNTY --- 0.9 SW WOLCOTT [40.76, -87.04]				
	08/07/11 11:42 EST		0	Thunderstorm Wind (EG 55 kt)
	08/07/11 11:43 EST		0	Source: Broadcast Media
Local media reported several tree limbs down.				
FULTON COUNTY --- 0.5 W KEWANNA [41.02, -86.41]				
	08/07/11 11:53 EST		10K	Lightning
	08/07/11 11:54 EST		0	Source: Emergency Manager
Emergency management officials reported lightning struck a tree, causing it to fall onto a house. No exact figures were given, but is estimated at \$10,000.				
WHITE COUNTY --- 0.5 W BADGER GROVE [40.58, -86.96]				
	08/07/11 12:22 EST		0	Thunderstorm Wind (EG 55 kt)
	08/07/11 12:23 EST		10K	Source: Broadcast Media
Local media reported trees and tree limbs were blown down in the area. Some corn suffered damage as well.				
MIAMI COUNTY --- 1.5 SSW STOCKDALE [40.90, -85.96]				
	08/07/11 12:34 EST		0	Thunderstorm Wind (EG 55 kt)
	08/07/11 12:35 EST		0	Source: Law Enforcement
Law enforcement officials reported several trees down.				

Storm Data and Unusual Weather Phenomena - August 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GRANT COUNTY --- 0.7 N SWAYZEE [40.51, -85.83]				
	08/07/11 13:05 EST		0	Thunderstorm Wind (MG 57 kt)
	08/07/11 13:06 EST		0	Source: Trained Spotter
A trained spotter reported a 66 mph wind gust.				
BLACKFORD COUNTY --- HARTFORD CITY [40.45, -85.37]				
	08/07/11 13:35 EST		0	Thunderstorm Wind (EG 52 kt)
	08/07/11 13:36 EST		0	Source: Trained Spotter
A trained spotter estimated wind gusts to 60 mph.				
WELLS COUNTY --- 0.7 S OSSIAN [40.87, -85.17]				
	08/07/11 13:45 EST		0	Thunderstorm Wind (MG 58 kt)
	08/07/11 13:46 EST		0	Source: Trained Spotter
A trained spotter recorded a 67 mph wind gust.				
WELLS COUNTY --- 1.4 N KINGSLAND [40.85, -85.17]				
	08/07/11 13:45 EST		0	Thunderstorm Wind (MG 58 kt)
	08/07/11 13:46 EST		0	Source: Trained Spotter
A trained spotter recorded a 67 mph wind gust.				
ELKHART COUNTY --- 1.6 E FORAKER [41.52, -85.90]				
	08/07/11 20:12 EST		0	Thunderstorm Wind (MG 63 kt)
	08/07/11 20:13 EST		0	Source: Storm Chaser
A trained spotter reported a 72 mph wind gust.				
KOSCIUSKO COUNTY --- 1.3 ESE NORTH WEBSTER [41.31, -85.68]				
	08/07/11 20:30 EST		0	Thunderstorm Wind (EG 55 kt)
	08/07/11 20:31 EST		0	Source: Trained Spotter
Trained spotters reported several large tree limbs down.				
An upper level system sparked thunderstorms across Illinois during the early morning hours of the 7th. These moved into northern Indiana during the late morning and continued through the afternoon. Reports of 60 to 70 mph wind gusts and large hail were received.				
CASS COUNTY --- 0.7 N LAKE CICOTT [40.78, -86.52]				
	08/08/11 19:03 EST		0	Thunderstorm Wind (EG 52 kt)
	08/08/11 19:04 EST		0	Source: Emergency Manager
Emergency management officials estimated 60 mph wind gusts as well as pea sized hail.				
CASS COUNTY --- 1.1 E DUNKIRK [40.75, -86.38]				
	08/08/11 19:15 EST		0	Thunderstorm Wind (EG 55 kt)
	08/08/11 19:16 EST		0	Source: Emergency Manager
Emergency management officials reported several trees and power lines down on the west and south side of Logansport. A portion of US 24 is closed due to down trees on the road.				
MIAMI COUNTY --- 0.7 S NORTH GROVE [40.61, -85.97]				
	08/08/11 20:11 EST		0	Thunderstorm Wind (EG 52 kt)
	08/08/11 20:12 EST		0	Source: Emergency Manager
Emergency management officials estimated wind gusts to 60 mph.				
A cold front was located across Illinois where several strong to severe storms developed. A thunderstorm developed across Newton county in Indiana and tracked towards Cass county, becoming supercellular as it did. Damaging winds were reported across portions of Cass county into Miami county before the storm weakened as it outran the best moisture and instability.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ELKHART COUNTY --- 1.4 N SIMONTON LAKE [41.75, -85.98]				
	08/09/11 14:10 EST		0	Hail (0.75 in)
	08/09/11 14:11 EST		0	Source: Trained Spotter
STEUBEN COUNTY --- HUDSON [41.53, -85.08]				
	08/09/11 15:44 EST		0	Hail (1.00 in)
	08/09/11 15:45 EST		0	Source: Trained Spotter
DE KALB COUNTY --- 0.5 E AUBURN [41.37, -85.04]				
	08/09/11 16:30 EST		0	Thunderstorm Wind (EG 55 kt)
	08/09/11 16:31 EST		0	Source: Law Enforcement
Law enforcement officials reported multiple tree branches down throughout the east side of Auburn.				
DE KALB COUNTY --- 0.7 WSW AUBURN [41.37, -85.06]				
	08/09/11 16:30 EST	1	0	Thunderstorm Wind (EG 55 kt)
	08/09/11 16:31 EST		0	Source: Law Enforcement
Law enforcement officials reported multiple trees down along 7th Street. One of these trees in the 400 block of 7th Street, fell onto a westbound United Parcel Service truck, striking the driver compartment. The 46 year old male driver was killed instantly.				
Direct Fatalities: M46VE				
ALLEN COUNTY --- 1.6 W WAYNE DALE [41.02, -85.21]				
	08/09/11 17:07 EST		0	Thunderstorm Wind (MG 56 kt)
	08/09/11 17:08 EST		0	Source: ASOS
The ASOS at the Fort Wayne International Airport recorded a 64 mph wind gust.				
WHITLEY COUNTY --- 0.5 E WASHINGTON CENTER [41.05, -85.51]				
	08/09/11 17:14 EST		0	Thunderstorm Wind (EG 55 kt)
	08/09/11 17:15 EST		0	Source: Emergency Manager
Emergency management officials reported a large tree down across the road at the intersection of County Road 800 South and South Washington Road.				
An upper level system moved across the Great Lakes, accompanied by a 100 knot upper level jet streak. Mixed layer CAPE on the order of 1500 to 2500 j/kg combined with modest shear and several convergent zones to allow for scattered thunderstorm development.				
LA PORTE COUNTY --- 0.5 W TRAIL CREEK [41.70, -86.88]				
	08/13/11 14:10 CST		0	Hail (1.00 in)
	08/13/11 14:11 CST		0	Source: Public
Storms which weakened across Lake Michigan produced an outflow boundary. This boundary worked into northwestern Indiana and interacted with a lake breeze boundary to promote rapid storm development. Marginally severe hail was reported over Laporte county, but the storms failed to maintain their severity eastward as a large outflow boundary work across and south of the area, cutting off the limited available moisture.				
CASS COUNTY --- 0.7 S LAKE CICCOTT [40.76, -86.52]				
	08/13/11 18:39 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 18:40 EST		0	Source: Emergency Manager
Emergency management officials reported multiple trees down around Lake Cicott.				
CASS COUNTY --- 1.1 E DUNKIRK [40.75, -86.38]				
	08/13/11 18:49 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 18:50 EST		0	Source: Emergency Manager
Emergency management officials reported multiple trees down in and around Logansport. At least one tree was down onto power lines on the west side of Logansport.				
MIAMI COUNTY --- 0.7 S BUNKER HILL [40.66, -86.10]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/13/11 19:10 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 19:11 EST		0	Source: Emergency Manager
Emergency management officials reported several tree limbs down onto power lines in the Bunker Hill area as well as remaining portions of southern Miami county.				
MIAMI COUNTY --- 0.7 S CHILI [40.86, -86.03]				
	08/13/11 19:20 EST		10K	Thunderstorm Wind (EG 55 kt)
	08/13/11 19:21 EST		0	Source: Emergency Manager
Emergency management officials reported a large tree fell onto a car. The car was unoccupied at the time. Damage to the car is estimated at \$10,000.				
WABASH COUNTY --- 0.5 E STOCKDALE [40.92, -85.94]				
	08/13/11 19:24 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 19:25 EST		0	Source: Emergency Manager
Emergency management officials reported trees down in the Stockdale area.				
WABASH COUNTY --- 0.4 ENE URBANA [40.90, -85.79]				
	08/13/11 19:33 EST		0	Hail (0.88 in)
	08/13/11 19:34 EST		0	Source: Trained Spotter
WABASH COUNTY --- 0.5 E URBANA [40.90, -85.79]				
	08/13/11 19:33 EST		0	Thunderstorm Wind (EG 52 kt)
	08/13/11 19:34 EST		0	Source: Trained Spotter
A trained spotter estimated 60 mph wind gusts.				
GRANT COUNTY --- 0.9 NE GAS CITY [40.49, -85.61]				
	08/13/11 19:40 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 19:41 EST		0	Source: Trained Spotter
Trained spotters reported trees down across the county. One large tree was blocking the road at State Route 18 and Western Avenue.				
BLACKFORD COUNTY --- HARTFORD CITY [40.45, -85.37]				
	08/13/11 19:58 EST		0	Thunderstorm Wind (EG 52 kt)
	08/13/11 19:59 EST		0	Source: Trained Spotter
Trained spotters reported estimated wind gusts of at least 60 mph.				
BLACKFORD COUNTY --- HARTFORD CITY [40.45, -85.37]				
	08/13/11 19:58 EST		0	Thunderstorm Wind (EG 60 kt)
	08/13/11 19:59 EST		0	Source: Law Enforcement
Several trees and power lines were reported down in Hartford City as well as through the county.				
ADAMS COUNTY --- 0.7 N LINN GROVE [40.66, -85.03]				
	08/13/11 20:03 EST		0	Hail (1.00 in)
	08/13/11 20:04 EST		0	Source: Trained Spotter
ADAMS COUNTY --- 1.4 N BERNE [40.67, -84.95]				
	08/13/11 20:19 EST		0	Hail (1.00 in)
	08/13/11 20:20 EST		0	Source: Trained Spotter
JAY COUNTY --- PORTLAND [40.43, -84.98]				
	08/13/11 20:38 EST		0	Thunderstorm Wind (EG 60 kt)
	08/13/11 20:39 EST		0	Source: Law Enforcement
Law enforcement officials reported several trees and power lines down across southern portions of the county.				

Thunderstorms developed along a cold front extending from Lower Michigan into Missouri during the afternoon and evening hours. Convection north of US 30 remained below severe levels as a result of the influence of morning convection. Several strong to severe

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
storms affected locations to the south with damaging winds and pocket of large hail.				
ADAMS COUNTY --- 0.7 N RIVARE [40.83, -84.85]				
	08/18/11 18:25 EST		0	Hail (0.75 in)
	08/18/11 18:26 EST		0	Source: Trained Spotter
ADAMS COUNTY --- 0.9 NE SAGE ARPT [40.83, -84.91]				
	08/18/11 18:26 EST		0	Hail (0.75 in)
	08/18/11 18:27 EST		0	Source: Trained Spotter
ADAMS COUNTY --- DECATUR [40.83, -84.93]				
	08/18/11 18:47 EST		0	Hail (0.75 in)
	08/18/11 18:52 EST		0	Source: Trained Spotter
A trained spotter reported hail to the size of dimes lasted for about 5 minutes in downtown Decatur.				
A weak trough moved through the region, sparking thunderstorms across portions of northeastern Indiana. A few of the storms produced hail to the size of dimes.				
ELKHART COUNTY --- MILLERSBURG [41.52, -85.70]				
	08/23/11 23:04 EST		0	Hail (0.88 in)
	08/23/11 23:05 EST		0	Source: NWS Employee
ELKHART COUNTY --- 1.6 W (EKM)ELKHART MUNI AR [41.72, -86.03]				
	08/24/11 20:07 EST		0	Hail (1.00 in)
	08/24/11 20:08 EST		0	Source: Amateur Radio
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	08/24/11 20:59 EST		0	Hail (0.75 in)
	08/24/11 21:00 EST		0	Source: Amateur Radio
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	08/24/11 21:00 EST		0	Hail (1.00 in)
	08/24/11 21:01 EST		0	Source: Public
A report of quarter size hail was received from the public near Snider High School.				
ALLEN COUNTY --- 1.3 ENE HUGO [41.06, -85.16]				
	08/24/11 21:00 EST		0	Thunderstorm Wind (EG 50 kt)
	08/24/11 21:01 EST		0	Source: Broadcast Media
Local media reported trees were blown down in the Indian Village neighborhood.				
A strong cold front moved across the region. Ahead of the front, temperatures were in the lower 90s with surface dewpoints well into the 70s. 30 to 40 knots of shear were also in place for the storm to work with. A strong elevated mixed layer was in place, limiting the potential for more explosive storm development. Reports of hail and damaging winds were received, but were sporadic.				
LAKE MICHIGAN				
NEW BUFFALO TO ST JOSEPH MI COUNTY --- 1.9 W ST. JOSEPH HARBOR [42.10, -86.52]				
	08/02/11 19:50 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/02/11 19:51 EST		0	Source: C-MAN Station
A 37 knot gust was recorded at St. Joseph GLERL site.				
NEW BUFFALO TO ST JOSEPH MI COUNTY --- 2.9 NW WARREN DUNES ST PRK [41.98, -86.62]				
	08/02/11 19:50 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/02/11 19:51 EST		0	Source: Buoy

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A 37 knot gust was recorded at Buoy 45026, located near the Cook Nuclear Plant in Bridgman.				
MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- 1.0 NNW MICHIGAN CITY [41.73, -86.91]				
	08/02/11 22:50 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	08/02/11 22:51 EST		0	Source: C-MAN Station
A 38 knot gust was recorded at Michigan City GLERL site.				
A cold front moved across the region during the evening hours of the 2nd into the overnight hours of the 3rd. Extreme instability existed across western Illinois and eastern Iowa. A line of storms developed and moved across Lake Michigan producing gusty winds as they came on shore.				
NEW BUFFALO TO ST JOSEPH MI COUNTY --- 2.9 NW WARREN DUNES ST PRK [41.98, -86.62]				
	08/13/11 14:50 EST		0	Marine Thunderstorm Wind (EG 36 kt)
	08/13/11 14:51 EST		0	Source: Buoy
A 36 knot wind gust was recorded at Buoy 45026, located to the west of the Cook Nuclear Plant near Bridgman.				
MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- 1.2 N MICHIGAN CITY [41.74, -86.90]				
	08/13/11 14:55 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	08/13/11 14:56 EST		0	Source: C-MAN Station
The coastal marine station near Michigan City recorded a 43 knot (49 mph) wind gust as thunderstorms moved on shore.				
An area of low pressure moved into the region, producing thunderstorms across southern Lake Michigan and Wisconsin. The storms produced gusty winds as they came onshore, but quickly weakened as they encountered stable air behind a lake breeze front.				
MICHIGAN, Extreme Southwest				
BERRIEN COUNTY --- 0.9 NW (BEH)ROSS ARPT BNTN [42.14, -86.44]				
	08/02/11 19:49 EST		0	Thunderstorm Wind (MG 51 kt)
	08/02/11 19:50 EST		0	Source: ASOS
BERRIEN COUNTY --- 0.5 W MILBURG [42.12, -86.34]				
	08/02/11 19:50 EST		0	Thunderstorm Wind (EG 55 kt)
	08/02/11 19:51 EST		0	Source: Public
Reports of trees and tree limbs down were received from the public in the Millburg area.				
A cold front moved across the region during the evening hours of the 2nd into the overnight hours of the 3rd. Extreme instability existed across western Illinois and eastern Iowa. A line of storms developed and moved into far southern Lower Michigan producing gusty winds.				
BERRIEN COUNTY --- 1.5 SSE VINELAND [42.05, -86.47]				
	08/07/11 18:30 EST		0	Hail (0.88 in)
	08/07/11 18:35 EST		0	Source: Trained Spotter
A trained spotter reported hail ranging from pea to nickel size falling for around 5 minutes.				
BERRIEN COUNTY --- 0.9 NW DERBY [42.03, -86.49]				
	08/07/11 18:35 EST		0	Thunderstorm Wind (EG 55 kt)
	08/07/11 18:36 EST		0	Source: Emergency Manager
Emergency management officials reported power lines and trees down throughout Lincoln Township. A portion of the roof of an abandoned house near Notre Dame was ripped off.				
BERRIEN COUNTY --- 1.5 SSW KINGS LNDG [42.01, -86.41]				
	08/07/11 18:45 EST		0	Thunderstorm Wind (EG 55 kt)
	08/07/11 18:46 EST		0	Source: Trained Spotter
A trained spotter reported a 18 inch diameter healthy tree blown down by the strong winds.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CASS COUNTY --- 4.3 SSW BARRON LAKE [41.77, -86.19]				
	08/07/11 19:27 EST		0	Thunderstorm Wind (EG 55 kt)
	08/07/11 19:28 EST		0	Source: Trained Spotter
Trained spotters reported multiple trees and tree limbs down at the intersection of Gumwood and Redfield Drives.				
An upper level system sparked thunderstorms across Illinois during the early morning hours of the 7th. These moved into northern Indiana during the late morning and continued through the afternoon. Reports of 60 to 70 mph wind gusts and some hail were received.				
BERRIEN COUNTY --- 0.9 NW COLOMA [42.19, -86.31]				
	08/13/11 15:00 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 15:01 EST		0	Source: Law Enforcement
Law enforcement officials reported several trees and power lines down in the Coloma area.				
CASS COUNTY --- 0.9 SW CASSOPOLIS [41.91, -86.01]				
	08/13/11 15:20 EST		0	Thunderstorm Wind (EG 50 kt)
	08/13/11 15:21 EST		0	Source: Law Enforcement
Law enforcement officials reported several tree limbs down as well as power line across the county.				
CASS COUNTY --- 0.9 SW CASSOPOLIS [41.91, -86.01]				
	08/13/11 15:30 EST		0	Hail (0.88 in)
	08/13/11 15:31 EST		0	Source: Public
ST. JOSEPH COUNTY --- 1.7 NW THREE RIVERS [41.95, -85.65]				
	08/13/11 15:43 EST		0	Thunderstorm Wind (MG 62 kt)
	08/13/11 15:44 EST		0	Source: Trained Spotter
A trained spotter recorded a 71 mph wind gust just to the northwest of Three Rivers.				
ST. JOSEPH COUNTY --- 1.7 NW THREE RIVERS [41.95, -85.65]				
	08/13/11 15:47 EST		0	Hail (1.00 in)
	08/13/11 15:48 EST		0	Source: Trained Spotter
A trained spotter reported hail covering the ground ranging in size from peas to quarters.				
CASS COUNTY --- 0.9 SE JONES [41.89, -85.79]				
	08/13/11 15:51 EST		0	Hail (1.00 in)
	08/13/11 15:52 EST		0	Source: Trained Spotter
ST. JOSEPH COUNTY --- NOTTAWA [41.92, -85.45]				
	08/13/11 16:09 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 16:10 EST		0	Source: Trained Spotter
A trained spotter reported multiple eight inch diameter tree limbs down at Nottawa Road and M-86.				
ST. JOSEPH COUNTY --- 0.7 N COLON [41.96, -85.32]				
	08/13/11 16:19 EST		0	Lightning
	08/13/11 16:20 EST	1	0	Source: Fire Department/Rescue
A fire official reported that a 17 year old female was struck by lightning at a campground while taking a shower. No specific details were given as to the extent of injuries, which are assumed minor.				
BRANCH COUNTY --- 0.5 W UNION CITY [42.07, -85.14]				
	08/13/11 16:23 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 16:24 EST		0	Source: Emergency Manager
Emergency management officials reported tree limbs down onto power lines near Union City. A transformer was on fire on one of the power poles that was affected.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BRANCH COUNTY --- 2.1 SSW UNION CITY [42.04, -85.14]				
	08/13/11 16:25 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 16:26 EST		0	Source: Emergency Manager
Emergency management officials reported a large tree down near the intersection of S and Union Roads.				
BRANCH COUNTY --- GIRARD [42.03, -85.00]				
	08/13/11 16:29 EST		0	Thunderstorm Wind (EG 55 kt)
	08/13/11 16:30 EST		0	Source: Emergency Manager
Emergency management officials reported a tree down on County Road 6. Power lines were arcing in the area.				
BRANCH COUNTY --- 0.7 S COLDWATER [41.94, -85.00]				
	08/13/11 16:37 EST		0	Thunderstorm Wind (EG 60 kt)
	08/13/11 16:38 EST		0	Source: Emergency Manager
Emergency management officials reported numerous trees down across the northern parts of the county.				
Storms which weakened across Lake Michigan produced an outflow boundary. This boundary worked into far southern Lower Michigan and interacted with a lake breeze boundary to promote rapid storm development. Reports of damaging winds and some hail were received, but the storms failed to maintain their severity eastward as a large outflow boundary work across and south of the area, cutting off the limited available moisture.				
CASS COUNTY --- 1.0 W LA GRANGE [41.95, -86.07]				
	08/24/11 19:12 EST		0	Thunderstorm Wind (EG 50 kt)
	08/24/11 19:13 EST		0	Source: Law Enforcement
Law enforcement officials reported a tree down west of Lagrange.				
A strong cold front moved across the region. Ahead of the front, temperatures were in the lower 90s with surface dewpoints well into the 70s. 30 to 40 knots of shear were also in place for the storm to work with. A strong elevated mixed layer was in place, limiting the potential for more explosive storm development. Reports of hail and damaging winds were received, but were sporadic.				
(MI-Z077) BERRIEN				
	08/28/11 13:40 EST	1	0	Rip Current
	08/28/11 13:41 EST		0	
Direct Fatalities: M44IW				
Three to six foot waves caused some rip currents to develop along the shores of southeastern Lake Michigan. A 44 year old man was swimming at a beach near Coloma, Michigan where he drowned after being pulled out by the rip current.				
OHIO, Northwest				
DEFIANCE COUNTY --- 2.8 N JEWELL [41.36, -84.28]				
	08/09/11 16:45 EST		0	Hail (1.75 in)
	08/09/11 16:46 EST		0	Source: Law Enforcement
DEFIANCE COUNTY --- 0.9 SW HICKSVILLE [41.29, -84.76]				
	08/09/11 17:00 EST		0	Thunderstorm Wind (EG 60 kt)
	08/09/11 17:01 EST		0	Source: Law Enforcement
Law enforcement officials reported several power poles, with transformers, blown down.				
PAULDING COUNTY --- 0.7 S PAULDING BUEHLER ARP [41.11, -84.62]				
	08/09/11 17:18 EST		0	Thunderstorm Wind (EG 60 kt)
	08/09/11 17:19 EST		0	Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management officials reported the roof of a mobile home removed east of the intersection of Township Road 95 and Town Highway 114. A tree was also reported down at the intersection of County road 87 and Town Highway 114.				

PAULDING COUNTY --- 0.9 NW PAULDING [41.14, -84.58]

08/09/11 17:18 EST	10K	Thunderstorm Wind (MG 57 kt)
08/09/11 17:19 EST	0	Source: Emergency Manager

Emergency management officials recorded a 66 mph wind gust in Paulding. A large limb was blown down onto a home in Paulding as well.

PAULDING COUNTY --- 1.3 ESE PAULDING BUEHLER ARP [41.11, -84.60]

08/09/11 17:19 EST	0	Thunderstorm Wind (EG 60 kt)
08/09/11 17:20 EST	0	Source: Emergency Manager

Emergency management officials reported nearly all power poles blown down along Town Highway 95, between Town Highway 114 and County Road 98. Power transmission lines were also blown down east of County Road 107, along Town Highway 114.

VAN WERT COUNTY --- 0.5 W VAN WERT [40.87, -84.58]

08/09/11 17:35 EST	0	Thunderstorm Wind (EG 60 kt)
08/09/11 17:36 EST	0	Source: Emergency Manager

Emergency management officials reported a two and one half foot diameter tree, with signs of some rotting, snapped at the base on the east side of Van Wert.

VAN WERT COUNTY --- 0.5 W VAN WERT [40.87, -84.58]

08/09/11 17:37 EST	0	Thunderstorm Wind (MG 50 kt)
08/09/11 17:38 EST	0	Source: Emergency Manager

Emergency management official recorded a 58 mph wind gust in Van Wert.

VAN WERT COUNTY --- OHIO CITY [40.77, -84.62]

08/09/11 17:46 EST	0	Hail (0.88 in)
08/09/11 17:47 EST	0	Source: Emergency Manager

PUTNAM COUNTY --- 0.5 W COLUMBUS GROVE [40.92, -84.06]

08/09/11 18:15 EST	0	Hail (0.75 in)
08/09/11 18:16 EST	0	Source: Trained Spotter

VAN WERT COUNTY --- 0.5 W MONTICELLO [40.70, -84.43]

08/09/11 18:16 EST	0	Hail (1.25 in)
08/09/11 18:17 EST	0	Source: Emergency Manager

Emergency management officials reported hail ranging from the size of quarters to half dollars.

An upper level system moved across the Great Lakes, accompanied by a 100 knot upper level jet streak. Mixed layer CAPE on the order of 1500 to 2500 j/kg combined with modest shear and several convergent zones to allow for scattered thunderstorm development.

DEFIANCE COUNTY --- 2.3 NNW THE BEND [41.31, -84.54]

08/18/11 16:51 EST	0	Hail (0.75 in)
08/18/11 16:52 EST	0	Source: Law Enforcement

A weak trough moved through the region, sparking thunderstorms across portions of northwest Ohio. A few of the storms produced hail to the size of dimes.

DEFIANCE COUNTY --- 4.8 N JEWELL [41.39, -84.28]

08/24/11 20:45 EST	0	Hail (0.75 in)
08/24/11 20:46 EST	0	Source: Trained Spotter

DEFIANCE COUNTY --- 0.5 W DEFIANCE [41.28, -84.36]

08/24/11 21:10 EST	0	Thunderstorm Wind (EG 50 kt)
08/24/11 21:11 EST	0	Source: Emergency Manager

Emergency management officials reported a few larger tree branches down throughout portions of the county.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
PAULDING COUNTY --- 2.8 S ANTWERP [41.14, -84.73]				
	08/24/11 21:22 EST		0	Hail (0.75 in)
	08/24/11 21:23 EST		0	Source: Trained Spotter
Trained spotter reported dime size hail at Ohio 49 and County Road 111.				
PAULDING COUNTY --- 0.5 W OAKWOOD [41.10, -84.38]				
	08/24/11 21:25 EST		0	Thunderstorm Wind (EG 55 kt)
	08/24/11 21:26 EST		0	Source: Law Enforcement
Law enforcement officials reported numerous trees and power lines down in and around Oakwood.				
HENRY COUNTY --- 0.9 SW SHUNK [41.36, -84.04]				
	08/24/11 21:29 EST		0	Thunderstorm Wind (EG 55 kt)
	08/24/11 21:30 EST		0	Source: Emergency Manager
Emergency management officials reported a large tree blocking both lanes of State Route 109, between Township Roads M and N.				
HENRY COUNTY --- HAMLER [41.23, -84.03]				
	08/24/11 21:40 EST		0	Thunderstorm Wind (EG 55 kt)
	08/24/11 21:41 EST		0	Source: Emergency Manager
Emergency management officials reported a few tree limbs and power poles down.				
PUTNAM COUNTY --- 1.7 NNW PRENTISS [41.17, -84.04]				
	08/24/11 21:45 EST		0	Thunderstorm Wind (EG 55 kt)
	08/24/11 21:46 EST		0	Source: Emergency Manager
Emergency management officials reported power poles and lines down on Ohio 109, between County Roads A and B.				
<p>A strong cold front moved across the region. Ahead of the front, temperatures were in the lower 90s with surface dewpoints well into the 70s. 30 to 40 knots of shear were also in place for the storm to work with. A strong elevated mixed layer was in place, limiting the potential for more explosive storm development. Reports of hail and damaging winds were received, but were sporadic.</p>				

Storm Data and Unusual Weather Phenomena - September 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
LA PORTE COUNTY --- 2.6 E SPRINGVILLE [41.68, -86.68]				
	09/03/11 15:44 CST		0	Thunderstorm Wind (EG 50 kt)
	09/03/11 15:45 CST		0	Source: Law Enforcement
Law enforcement officials reported a large tree limb down at Fail Road and US 20.				
STARKE COUNTY --- 2.2 WSW BREMS [41.32, -86.74]				
	09/03/11 15:45 CST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 15:46 CST		0	Source: State Official
State officials reported trees down at the intersection of State Roads 39 and 8.				
ELKHART COUNTY --- GOSHEN [41.58, -85.83]				
	09/03/11 16:05 EST		0	Hail (1.00 in)
	09/03/11 16:06 EST		0	Source: Public
STARKE COUNTY --- 1.3 WSW BASS LAKE [41.21, -86.60]				
	09/03/11 16:40 CST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 16:41 CST		0	Source: Law Enforcement
Law enforcement officials reported multiple trees and power lines down around Bass Lake.				
ELKHART COUNTY --- BRISTOL [41.72, -85.82]				
	09/03/11 16:45 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 16:46 EST		0	Source: Law Enforcement
Law enforcement officials reported power lines and poles down.				
ELKHART COUNTY --- GOSHEN [41.58, -85.83]				
	09/03/11 16:54 EST		0	Hail (0.75 in)
	09/03/11 16:55 EST		0	Source: Trained Spotter
Trained spotter reported at the intersection of State Route 15 and US 33.				
ST. JOSEPH COUNTY --- 1.4 N SBN CHAIN LAKES ARPT [41.69, -86.35]				
	09/03/11 17:13 EST		0	Hail (1.75 in)
	09/03/11 17:14 EST		0	Source: Trained Spotter
ELKHART COUNTY --- 4.2 S MIDDLEBURY [41.62, -85.71]				
	09/03/11 18:24 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 18:25 EST		0	Source: County Official
Local law enforcement officials reported a large tree down onto a van near the intersection of State Route 13 and County Road 26. No injuries were reported.				
LAGRANGE COUNTY --- 2.9 NW HONEYVILLE [41.61, -85.66]				
	09/03/11 18:34 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 18:35 EST		0	Source: County Official
County officials reported trees down on the west side of the Elkhart and Lagrange county line, between County Roads 28 and 32.				
LAGRANGE COUNTY --- 0.7 S LAGRANGE [41.64, -85.42]				
	09/03/11 18:35 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 18:36 EST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines down throughout the county.				
LAGRANGE COUNTY --- 0.4 SSE LAGRANGE [41.64, -85.42]				

Storm Data and Unusual Weather Phenomena - September 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/03/11 18:40 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 18:41 EST		0	Source: Newspaper

A local newspaper reported a large tree limb, roughly 18 inches in diameter, was blown down by the strong winds, landing on the north side of the county courthouse. No damage occurred to the building from the tree limb.

An outflow boundary extended from southeastern Lower Michigan to northern Illinois. Mixed layer CAPE in excess of 2500 j/kg and moderate shear allowed for stronger thunderstorms to develop. As they became organized and established cold pools, the storms transitioned from hail producers to mainly producing wind damage.

HUNTINGTON COUNTY --- 0.7 S ROANOKE [40.96, -85.37]

09/24/11 13:22 EST	0	Hail (0.75 in)
09/24/11 13:26 EST	0	Source: Amateur Radio

Amateur radio operators reported hail up to the size of dimes fell for roughly four minutes.

An upper level disturbance produced moderate shear and a weakly unstable environment for thunderstorms to develop. A few storms grew to sufficient size to produce hail, with the largest being penny size.

ELKHART COUNTY --- 1.6 ESE NAPPANEE [41.44, -85.97], 1.5 E NAPPANEE [41.45, -85.97]

09/27/11 11:56 EST	10K	Tornado (EF0, L: 0.57 mi , W: 30 yd)
09/27/11 11:58 EST	0	Source: NWS Storm Survey

A NWS survey of damage and eyewitness reports of a possible tornado was performed near Nappanee. Four different eyewitnesses reported a tornado touch down at a business on the south side of US 6 and quickly track north across US 6, ending near County Road 54. Minor shingle and soffit damage was observed to 2 businesses. Small branches were also broken in the area. Eyewitnesses reported that branches and leaves were being bent upwards into the circulation but remained generally intact. Wind speed are estimated in the 70 to 75 mph range.

A closed upper level low lingered across the southern Great Lakes for several days. Bands of showers developed on the eastern flank of the upper low during the early afternoon hours of the 27th. A small circulation developed in an isolated shower and produced a weak tornado.

MICHIGAN, Extreme Southwest

ST. JOSEPH COUNTY --- 1.5 E CENTREVILLE [41.92, -85.50]

09/03/11 16:15 EST	0	Hail (2.00 in)
09/03/11 16:16 EST	0	Source: Trained Spotter

ST. JOSEPH COUNTY --- 2.9 NE KIRSCH MUNI ARPT [41.85, -85.41]

09/03/11 16:27 EST	0	Thunderstorm Wind (EG 55 kt)
09/03/11 16:28 EST	0	Source: Fire Department/Rescue

Local fire officials reported a tree down onto a car on M-66, just south of Maystead Road.

ST. JOSEPH COUNTY --- 1.5 NNW FAWN RIVER [41.80, -85.36]

09/03/11 16:35 EST	0	Thunderstorm Wind (EG 55 kt)
09/03/11 16:36 EST	0	Source: Law Enforcement

Law enforcement officials reported a tree down onto power lines.

BRANCH COUNTY --- 0.9 NW COLDWATER ARPT [41.94, -85.06]

09/03/11 17:00 EST	0	Thunderstorm Wind (EG 55 kt)
09/03/11 17:01 EST	0	Source: Emergency Manager

Emergency management officials reported a tree down onto a road west of Coldwater.

BRANCH COUNTY --- 1.2 SW COLDWATER [41.94, -85.02]

09/03/11 17:00 EST	0	Thunderstorm Wind (EG 52 kt)
09/03/11 17:01 EST	0	Source: Emergency Manager

Emergency management officials estimated a 60 mph wind gust in Coldwater.

Storm Data and Unusual Weather Phenomena - September 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BRANCH COUNTY --- 1.4 N COLDWATER [41.97, -85.00]				
	09/03/11 17:08 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 17:09 EST		0	Source: Emergency Manager
Emergency management officials reported a tree down onto a camper with two occupants. No injuries were reported. In addition, minor damage to cars and trailers in the area were reported from falling tree limbs.				
BRANCH COUNTY --- 0.9 SW HODUNK [42.01, -85.06]				
	09/03/11 17:10 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 17:11 EST		0	Source: Emergency Manager
Emergency management officials reported numerous trees down across the northern half of the county.				
HILLSDALE COUNTY --- 4.1 NW ALLEN [41.99, -84.83]				
	09/03/11 17:20 EST		0	Hail (1.00 in)
	09/03/11 17:21 EST		0	Source: Trained Spotter
A trained spotter reported quarter size hail at the corner of Jonesville and Squires Road.				
BRANCH COUNTY --- 0.7 N QUINCY [41.94, -84.88]				
	09/03/11 17:23 EST		0	Hail (1.00 in)
	09/03/11 17:24 EST		0	Source: Trained Spotter
HILLSDALE COUNTY --- 4.3 NW ALLEN [42.00, -84.82]				
	09/03/11 17:25 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 17:26 EST		0	Source: Amateur Radio
Amateur radio operators reported a tree down at Squires and Genesee Road. A portion of a sheet metal roof was taken off a barn at Squires and Jonesville Road.				
HILLSDALE COUNTY --- 3.4 WSW LITCHFIELD [42.03, -84.81]				
	09/03/11 17:27 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 17:28 EST		0	Source: Amateur Radio
Amateur radio operators reported a tree down near the intersection of Hadley and Herring Road.				
HILLSDALE COUNTY --- 0.9 SW LITCHFIELD [42.04, -84.76]				
	09/03/11 17:30 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 17:31 EST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines down.				
HILLSDALE COUNTY --- 0.9 SW LITCHFIELD [42.04, -84.76]				
	09/03/11 17:35 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 17:36 EST		0	Source: Emergency Manager
Emergency management officials reported two trees down.				
HILLSDALE COUNTY --- 0.5 W MOSCOW [42.05, -84.51]				
	09/03/11 17:50 EST		0	Thunderstorm Wind (EG 55 kt)
	09/03/11 17:51 EST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines down.				
An outflow boundary extended from southeastern Lower Michigan to northern Illinois. Mixed layer CAPE in excess of 2500 j/kg and moderate shear allowed for stronger thunderstorms to develop. As they became organized and established cold pools, the storms transitioned from hail producers to mainly producing wind damage.				
(MI-Z077) BERRIEN				
	09/04/11 15:30 EST	1	0	Rip Current
	09/04/11 15:34 EST		0	

Storm Data and Unusual Weather Phenomena - September 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Direct Fatalities: M25IW

High waves on southeastern Lake Michigan cause rough conditions along the lake shore areas, where rip currents were common. One rip current at New Buffalo Public beach contributed to the death of 25 year old, plus minor injuries to a lifeguard. A second man was also caught by the rip current, but was rescued from a swim buoy and refused treatment.

BERRIEN COUNTY --- 0.5 W SHOREHAM [42.07, -86.51]

09/29/11 18:36 EST	0	Thunderstorm Wind (EG 55 kt)
09/29/11 18:37 EST	0	Source: State Official

Local dispatchers reported several large diameter trees snapped and power poles pushed over by the strong winds.

BERRIEN COUNTY --- 1.0 E LITTLE PAW PAW LAKE [42.22, -86.26]

09/29/11 18:40 EST	0	Hail (0.75 in)
09/29/11 18:41 EST	0	Source: Trained Spotter

A strong frontal boundary swept across Lake Michigan into southwestern Lower Michigan. A narrow line of showers and storms formed on the front and was briefly able to bring stronger wind gusts to the surface as it came onshore. The line continued east, but wind speed were sub severe.

(MI-Z077) BERRIEN

09/30/11 00:30 EST	1	High Wind (MAX 55 kt)
09/30/11 10:00 EST	0	

Direct Fatalities: M53GF

Deep low pressure moving across the northern Great Lakes caused a pressure gradient across much of the region. Strong winds aloft were mixed down and caused pockets of wind damage, power outages and even some school closures due to the power outages. One death was reported when a tree fell onto a golfer, killing him instantly.

OHIO, Northwest

ALLEN COUNTY --- 0.7 S LOST CREEK ADDITION [40.74, -84.07]

09/03/11 20:37 EST	0	Thunderstorm Wind (EG 50 kt)
09/03/11 20:38 EST	0	Source: Law Enforcement

Law enforcement officials reported a tree down on Thayer Road.

PUTNAM COUNTY --- 0.5 W BELMORE [41.15, -83.94]

09/03/11 21:15 EST	0	Thunderstorm Wind (EG 55 kt)
09/03/11 21:16 EST	0	Source: Law Enforcement

Law enforcement officials reported trees and power poles down.

An outflow boundary extended from southeastern Lower Michigan to northern Illinois. Mixed layer CAPE in excess of 2500 j/kg and moderate shear allowed for stronger thunderstorms to develop. As they became organized and established cold pools, the storms transitioned from hail producers to mainly producing wind damage.

Storm Data and Unusual Weather Phenomena - October 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MICHIGAN, Extreme Southwest				
<hr/>				
(MI-Z077) BERRIEN				
	10/15/11 15:05 EST	1	0	High Surf
	10/15/11 18:00 EST		0	

Direct Fatalities: M18BO

Strong northwest winds caused rough waters along southeastern Lake Michigan. Three teenagers were kayaking inside a New Buffalo break-wall when they capsized as a result of waves of at least 8 to 10 feet just offshore and over 14 feet onshore. Two of the teens were recovered by local officials, but the third could not be rescued. His body eventually came to shore about 12 miles southwest of where he went underwater.

Storm Data and Unusual Weather Phenomena - November 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
KOSCIUSKO COUNTY --- 1.4 S CLAYPOOL [41.11, -85.88]				
	11/14/11 14:20 EST		0	Hail (0.75 in)
	11/14/11 14:21 EST		0	Source: Trained Spotter
CASS COUNTY --- LUCERNE [40.87, -86.40]				
	11/14/11 14:55 EST		0	Hail (0.75 in)
	11/14/11 14:56 EST		0	Source: Emergency Manager
WHITLEY COUNTY --- 0.9 SW COLUMBIA CITY [41.16, -85.49]				
	11/14/11 14:59 EST		0	Hail (1.00 in)
	11/14/11 15:00 EST		0	Source: Emergency Manager
WHITLEY COUNTY --- 0.9 SW COLUMBIA CITY [41.16, -85.49]				
	11/14/11 15:00 EST		0	Hail (1.00 in)
	11/14/11 15:01 EST		0	Source: Trained Spotter
WHITLEY COUNTY --- 0.9 SW COLUMBIA CITY [41.16, -85.49]				
	11/14/11 15:03 EST		0	Hail (1.00 in)
	11/14/11 15:04 EST		0	Source: Trained Spotter
CASS COUNTY --- 0.7 S CLYMERS [40.71, -86.45]				
	11/14/11 15:10 EST		0	Hail (0.75 in)
	11/14/11 15:11 EST		0	Source: Emergency Manager
Emergency management officials reported mainly pea size hail, with a few hail stones as large as pennies.				
WHITLEY COUNTY --- 0.9 SW COLUMBIA CITY [41.16, -85.49]				
	11/14/11 15:13 EST		0	Hail (1.00 in)
	11/14/11 15:14 EST		0	Source: Amateur Radio
ALLEN COUNTY --- PRAIRIE SWITCH [41.02, -85.30]				
	11/14/11 15:25 EST		0	Hail (0.75 in)
	11/14/11 15:26 EST		0	Source: Trained Spotter
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	11/14/11 15:33 EST		0	Hail (0.75 in)
	11/14/11 15:34 EST		0	Source: Amateur Radio
CASS COUNTY --- DEACON [40.63, -86.32]				
	11/14/11 15:55 EST		0	Thunderstorm Wind (EG 52 kt)
	11/14/11 15:56 EST		0	Source: Emergency Manager
Emergency management officials estimated thunderstorm wind gusts of around 60 mph.				
MIAMI COUNTY --- 0.7 N (GUS)GRISSOM AFB PER [40.66, -86.15]				
	11/14/11 16:03 EST		0	Hail (0.75 in)
	11/14/11 16:04 EST		0	Source: Emergency Manager
HUNTINGTON COUNTY --- BANQUO [40.70, -85.62]				
	11/14/11 16:39 EST		0	Hail (0.75 in)
	11/14/11 16:40 EST		0	Source: Trained Spotter
HUNTINGTON COUNTY --- 1.7 NW WARREN [40.70, -85.45]				
	11/14/11 16:40 EST		0	Hail (0.88 in)
	11/14/11 16:41 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - November 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A trained spotter reported nickel size hail, as well as a few small tree limbs down on Interstate 69, near Mile Marker 76.				
HUNTINGTON COUNTY --- 1.6 E PLUM TREE [40.73, -85.37]				
	11/14/11 16:43 EST		0	Hail (1.00 in)
	11/14/11 16:44 EST		0	Source: Emergency Manager

WELLS COUNTY --- 0.5 E KEYSTONE [40.60, -85.26]				
	11/14/11 17:02 EST		0	Hail (0.75 in)
	11/14/11 17:03 EST		0	Source: Trained Spotter

A strong southerly flow and developing low pressure helped push a warm front north into parts of Northern Indiana. A cold front swept in from the west as well. Strong to extreme low level shear was located near the warm front. However, many of the storms were not able to fully utilize this stronger shear. Numerous low topped thunderstorms developed with several exhibiting persistent rotation across western portions of Indiana. Isolated severe hail was reported. A few reports of wall clouds or rotation were received, but a lack of backing winds prevented favorable tornadic environment. As the storms attempted to interact more with the warm front, a Line Echo Wave Pattern (LEWP) developed and a few of the storms began to produce locally damaging winds.

(IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z008) NOBLE, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON				
	11/29/11 14:00 EST		0	Heavy Snow
	11/29/11 23:00 EST		0	

Rain changed over to heavy wet snow during the afternoon and evening hours of November 29th as an intensifying low pressure system lifted north through Ohio. Snowfall amounts as high as 8 to 10 inches were reported with this storm.

MICHIGAN, Extreme Southwest

(MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE				
	11/29/11 15:00 EST		0	Heavy Snow
	11/30/11 01:00 EST		0	

Rain changed over to heavy wet snow during the afternoon and evening hours of November 29th as an intensifying low pressure system lifted north through Ohio. Snowfall amounts generally ranged between 6 and 9 inches.

OHIO, Northwest

DEFIANCE COUNTY --- 0.9 SW HICKSVILLE [41.29, -84.76]				
	11/14/11 15:20 EST		0	Hail (0.75 in)
	11/14/11 15:21 EST		0	Source: Emergency Manager

DEFIANCE COUNTY --- 0.5 W DEFIANCE [41.28, -84.36]				
	11/14/11 15:28 EST		0	Hail (0.75 in)
	11/14/11 15:29 EST		0	Source: Emergency Manager

DEFIANCE COUNTY --- 4.8 N JEWELL [41.39, -84.28]				
	11/14/11 15:33 EST		0	Hail (0.75 in)
	11/14/11 15:34 EST		0	Source: Trained Spotter

VAN WERT COUNTY --- 1.6 W SCOTT [40.98, -84.60]				
	11/14/11 16:33 EST		1K	Thunderstorm Wind (EG 55 kt)
	11/14/11 16:34 EST		0	Source: Emergency Manager

Emergency management officials reported roof damage to a large pole barn, with a few trees down on Elm Sugar Road, between Dutch John and John Brown Roads. Damage is estimated at around \$1,000.

A strong southerly flow and developing low pressure helped push a warm front north into parts of northwestern Ohio. A cold front swept in from the west as well. Strong to extreme low level shear was located near the warm front. Areas of weak rotation were noted

Storm Data and Unusual Weather Phenomena - November 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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within a LEWP as the storms moved into northwestern Ohio. Severe weather was isolated to a few hail and wind damage reports.